



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 139487

TO: Terra Gibbs
Location: REM-2D10/2C18
Art Unit: 1635
Friday, December 03, 2004
Case Serial Number: 10/024369

From: Paul Schulwitz
Location: Biotech-Chem Library
REM-1A65
Phone: (571)272-2527

paul.schulwitz@uspto.gov

Search Notes

Examiner Gibbs,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Paul Schulwitz
Technical Information Specialist
STIC Biotech/Chem Library
(571)272-2527



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SCORE OVER LENGTH SEARCHES

Attached is a score over length search. This search was developed to overcome limitations in most standard search systems which favor large sequences with high scoring, but lesser overall identity over smaller sequences with higher overall identity. This search is especially useful for relatively small nucleic acid or polypeptide target sequences (antisense, fragments, probes, primers, RNAi, epitopes, haptens, etc.) claimed functionally via a form of hybridization and/or identity language and having defined upper and lower polynucleotide and or polypeptide length limits.

The score over length search is performed by first running the query sequence using examiner-specified identity and polynucleotide or protein length limit parameters, and saving 65,000 hits and 0 alignments from each desired database. The resulting output is reformatted using a Microsoft Word macro and is imported into Excel. The summary table data are then sorted by the ratio of score of each hit sequence divided by its length and the accession numbers for all hits below the examiner's desired score over length parameters are deleted. The remaining accession numbers are used to pull the corresponding sequences from the databases into subdatabases enriched for good hits and the query sequence is re-run against these subdatabases to yield the final results.

The score over length cutoff for this search is ____.

Examiner Please Note: This cover sheet should be included when submitting results to be scanned.

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Schreiber, David

From: Gibbs, Terra
Sent: Tuesday, November 16, 2004 10:15 AM
To: Schreiber, David
Subject: Sequence search request...

Hi David,

I have another request for a score over length search:

I need a length limited nucleotide sequence search of nucleobases 1018-1037 of SEQ ID NO:3 in USSN 10/024,369, where the returns are rank ordered based on the score over length/ratio as we've discussed.

I need the lengths limited to hits between 8 and 50 nucleotides, and I'll take as many hits as you can import into excel (64,000?), and alignments for anything above .75 on the above ratio. Hope this is clear, please call me if it's not. I also need the interference databases searched.

*Terra Cotta Gibbs, Ph.D.
Art Unit 1635
Remsen Building 2D10
Mailbox 2C18
571-272-0758*

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Comugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 3, 2004, 11:38:34 ; Search time 0.001 Seconds
(Without alignments)
37.240 Million cell updates/sec

Title: us-10-024-369-3

Perfect score: 20
Sequence: 1 cttctgcacgaagagtggtg 20

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 0.5

Searched: 88 seqs, 931 residues

Total number of hits satisfying chosen parameters: 176

Minimum DB seq length: 8
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 88 summaries

Database: rgedb:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	12	60.0	15	1	ACCESSION:BD061440
2	10	50.0	11	1	ACCESSION:AX623364
3	10	50.0	11	1	ACCESSION:AX630785
4	9.4	47.0	11	1	ACCESSION:CO835700
5	9.4	47.0	11	1	ACCESSION:AX472203
6	9	45.0	10	1	ACCESSION:BD238992
7	9	45.0	10	1	ACCESSION:BD239512
8	9	45.0	10	1	ACCESSION:BD239813
9	9	45.0	11	1	ACCESSION:CO836692
10	9	45.0	11	1	ACCESSION:AR353840
11	9	45.0	11	1	ACCESSION:AX625163
12	9	45.0	11	1	ACCESSION:AX632584
13	9	45.0	12	1	ACCESSION:AR349259
14	9	45.0	12	1	ACCESSION:AR349261
15	8.4	42.0	10	1	ACCESSION:AX92569
16	8.4	42.0	10	1	ACCESSION:AR043677
17	8.4	42.0	10	1	ACCESSION:BD238844
18	8.4	42.0	10	1	ACCESSION:BD239019
19	8.4	42.0	10	1	ACCESSION:BD240663
20	8.4	42.0	10	1	ACCESSION:CO766709
21	8.4	42.0	10	1	ACCESSION:AR303500
22	8.4	42.0	10	1	ACCESSION:AX152798
23	8.4	42.0	10	1	ACCESSION:AX301616
24	8.4	42.0	10	1	ACCESSION:AX374630
25	8.4	42.0	10	1	ACCESSION:AX805907
26	8.4	42.0	10	1	ACCESSION:BD161343
27	8.4	42.0	10	1	ACCESSION:BD166511
28	8.4	42.0	11	1	ACCESSION:AR074494
29	8.4	42.0	11	1	ACCESSION:AR081174
30	8.4	42.0	11	1	ACCESSION:AR085371
31	8.4	42.0	11	1	ACCESSION:AR088119
32	8.4	42.0	11	1	ACCESSION:AR104278
33	8.4	42.0	11	1	ACCESSION:AR143540

34	8.4	42.0	11	1	AR171446	ACCESSION:AR171446
35	8.4	42.0	11	1	AR171617	ACCESSION:AR171617
36	8.4	42.0	11	1	BD243207	ACCESSION:BD243207
37	8.4	42.0	11	1	CO833089	ACCESSION:CO833089
38	8.4	42.0	11	1	CO833231	ACCESSION:CO833231
39	8.4	42.0	11	1	CO835108	ACCESSION:CO835108
40	8.4	42.0	11	1	CO835129	ACCESSION:CO835129
41	8.4	42.0	11	1	CO836261	ACCESSION:CO836261
42	8.4	42.0	11	1	CO837388	ACCESSION:CO837388
43	8.4	42.0	11	1	CO837393	ACCESSION:CO837393
44	8.4	42.0	11	1	CO837792	ACCESSION:CO837792
45	8.4	42.0	11	1	134822	ACCESSION:134822
46	8.4	42.0	11	1	AX412934	ACCESSION:AX412934
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50	8.4	42.0	11	1	AX623377	ACCESSION:AX623377
51	8.4	42.0	11	1	AX623396	ACCESSION:AX623396
52	8.4	42.0	11	1	AX623509	ACCESSION:AX623509
53	8.4	42.0	11	1	AX625581	ACCESSION:AX625581
54	8.4	42.0	11	1	AX626059	ACCESSION:AX626059
55	8.4	42.0	11	1	AX626126	ACCESSION:AX626126
56	8.4	42.0	11	1	AX626949	ACCESSION:AX626949
57	8.4	42.0	11	1	AX627089	ACCESSION:AX627089
58	8.4	42.0	11	1	AX627751	ACCESSION:AX627751
59	8.4	42.0	11	1	AX627792	ACCESSION:AX627792
60	8.4	42.0	11	1	AX627837	ACCESSION:AX627837
61	8.4	42.0	11	1	AX628191	ACCESSION:AX628191
62	8.4	42.0	11	1	AX628263	ACCESSION:AX628263
63	8.4	42.0	11	1	AX629947	ACCESSION:AX629947
64	8.4	42.0	11	1	AX630798	ACCESSION:AX630798
65	8.4	42.0	11	1	AX630817	ACCESSION:AX630817
66	8.4	42.0	11	1	AX630930	ACCESSION:AX630930
67	8.4	42.0	11	1	AX632853	ACCESSION:AX632853
68	8.4	42.0	9	1	AX6480947	ACCESSION:AX6480947
69	8.4	40.0	9	1	AX668629	ACCESSION:AX668629
70	8.4	40.0	9	1	AX668630	ACCESSION:AX668630
71	8.4	40.0	9	1	AX668813	ACCESSION:AX668813
72	8.4	40.0	9	1	AX668814	ACCESSION:AX668814
73	8.4	40.0	9	1	AB012724	ACCESSION:AB012724
74	8.4	40.0	10	1	AX15662	ACCESSION:AX15662
75	8.4	40.0	10	1	BD238780	ACCESSION:BD238780
76	8.4	40.0	10	1	BD238878	ACCESSION:BD238878
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78	8.4	40.0	10	1	BD239283	ACCESSION:BD239283
79	8.4	40.0	10	1	BD239952	ACCESSION:BD239952
80	8.4	40.0	10	1	BD240374	ACCESSION:BD240374
81	8.4	40.0	10	1	BD240368	ACCESSION:BD240368
82	8.4	40.0	10	1	BD240561	ACCESSION:BD240561
83	8.4	40.0	10	1	119170	ACCESSION:119170
84	8.4	40.0	10	1	AR303345	ACCESSION:AR303345
85	8.4	40.0	10	1	AX152217	ACCESSION:AX152217
86	8.4	40.0	10	1	AX153242	ACCESSION:AX153242
87	8.4	40.0	10	1	AX301610	ACCESSION:AX301610
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ALIGNMENTS

RESULT 1
LOCUS BD061440/c
DEFINITION Method for selectively separating living cell expressed with
specific gene.
ACCESSION BD061440
VERSION BD061440.1 GI:22607046
KEYWORDS JP 2001286285-A/2.
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1 (bases 1 to 15)
AUTHORS Ishibashi,K. and Tsuji,A.

TITLE Method for selectively separating living cell expressed with specific gene
JOURNAL Patent: JP 2001286285-A 2 16-OCT-2001;
LABORATORY OF MOLECULAR BIOPHOTONICS
COMMENT OS Artificial Sequence
PN JP 2001286285-A/2
PD 16-OCT-2001
PR 28-APR-2000 JP 2000130793
PI KANAME ISHIBASHI AKIHIKO TSUJI
PC C12N15/02, C12N1/02, C12N5/10, C12Q1/68, G01N33/48, G01N33/53, PC
G01N33/566, C12N15/02, C12R1/91, C12Q1/68, C12R1/91, C12N15/00,
PC G01N33/58, C12N1/02, C12R1/91, C12Q1/68, C12R1/91, C12N15/00,
CC C12N5/00
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/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"

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Matches 12; Conservative 0; Mismatches 0; Gaps 0;

Qy 1022 TGCCCAAGAG 1033
Db 14 TGCCCAAGAG 3

RESULT 2
AX623364/c 11 bp DNA linear PAT 21-FEB-2003
LOCUS Sequence 405 from Patent WO02053774.
DEFINITION AX623364
ACCESSION AX623364
VERSION AX623364.1 GI:28451305
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS Petersohn, D., Conradt, M. and Hofmann, K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 405 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source 1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

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Best Local Similarity 100.0%; Pred. No. 9.9;
Matches 10; Conservative 0; Mismatches 0; Gaps 0;

Qy 1024 CCCAAGAG 1033
Db 10 CCCAAGAG 1

RESULT 3
AX630785/c 11 bp DNA linear PAT 21-FEB-2003
LOCUS Sequence 7826 from Patent WO02053774.
DEFINITION AX630785
ACCESSION AX630785
VERSION AX630785.1 GI:28458825
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
1

AUTHORS Petersohn, D., Conradt, M. and Hofmann, K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 7826 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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Best Local Similarity 100.0%; Pred. No. 9.9;
Matches 10; Conservative 0; Mismatches 0; Gaps 0;

Qy 1024 CCCAAGAG 1033
Db 10 CCCAAGAG 1

RESULT 4
C0835700 11 bp DNA linear PAT 29-JUL-2004
LOCUS Sequence 758 from Patent WO2004059001.
DEFINITION C0835700
ACCESSION C0835700
VERSION C0835700.1 GI:50835234
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS Petersohn, D., Schlotmann, K., Gassenmeier, T., Holtkötter, O.,
Conradt, M. and Hofmann, K.
TITLE Method for determining markers of human facial skin
JOURNAL Patent: WO 2004059001-A 758 15-JUL-2004;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source 1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 47.0%; Score 9.4; DB 1; Length 11;
Best Local Similarity 90.9%; Pred. No. 14;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1021 CTGCCCTAGAA 1031
Db 1 CTGCCCTAGAA 11

RESULT 5
AX472203 11 bp DNA linear PAT 09-AUG-2002
LOCUS Sequence 194 from Patent WO02053775.
DEFINITION AX472203
ACCESSION AX472203
VERSION AX472203.1 GI:22207240
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS Huster, E., Haberl, M. and Wojnowski, L.
TITLE Identification of the genetic determinants of the polymorphic
JOURNAL cyp3a5 expression
PATENT: WO 02053775-A 194 11-JUL-2002;
EPIDAUROS BIOTECHNOLOGIE AG (DE)
FEATURES
source 1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 47.0%; Score 9.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 14;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1020 TCTGCCCAAGA 1030
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1 TCTGCCCAAGA 11

Db 1 TCTGCCCAAGA 11

RESULT 6
BD238992 10 bp DNA linear PAT 17-JUL-2003

LOCUS
BD238992

DEFINITION
Preparation and use of superior vaccines.

ACCESSION
BD238992

VERSION
BD238992.1 GI:33048762

KEYWORDS
JP 2002534056-A/410.

SOURCE
Homo sapiens (human)

ORGANISM
Homo sapiens

REFERENCE
1 (bases 1 to 10)
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

AUTHORS
Roberts,B.L. and Shankara,S.

TITLE
Preparation and use of superior vaccines

JOURNAL
Patent: JP 2002534056-A 410 15-OCT-2002;

COMMENT
GENZYME CORP

OS Homo sapiens (human)
PN JP 2002534056-A/410
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
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19-JUN-1998 US 60/089997,19-JUN-1998 US 60/090079 PR
19-JUN-1998 US 60/090035,19-JUN-1998 US 60/089993 PR
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19-JUN-1998 US 60/090044,19-JUN-1998 US 60/089844 PR
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08-DEC-1998 US 60/111715

PI BRUCE L ROBERTS,SRINIVAS SHANKARA
PC C12N15/09,C12N15/09,A61K39/00,A61P37/04,C12N1/15, PC
C12N1/19,
PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
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PC C12N15/00,C12N5/00,C12N15/00
CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
FT source 1..10
FT Location/Qualifiers
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FEATURES
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Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1029 GAAGGTGGG 1037
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1 GAAGGTGGG 9

Db 1 GAAGGTGGG 9

RESULT 7
BD239512 10 bp DNA linear PAT 17-JUL-2003

LOCUS
BD239512

DEFINITION
Preparation and use of superior vaccines.

ACCESSION
BD239512

VERSION
BD239512.1 GI:33049282

KEYWORDS
JP 2002534056-A/930.

SOURCE
Homo sapiens (human)

ORGANISM
Homo sapiens

REFERENCE
1 (bases 1 to 10)
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

AUTHORS
Roberts,B.L. and Shankara,S.

TITLE
Preparation and use of superior vaccines

JOURNAL
Patent: JP 2002534056-A 930 15-OCT-2002;

COMMENT
GENZYME CORP

OS Homo sapiens (human)
PN JP 2002534056-A/930
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR
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19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR
08-DEC-1998 US 60/111715

PI BRUCE L ROBERTS,SRINIVAS SHANKARA
PC C12N15/09,C12N15/09,A61K39/00,A61P37/04,C12N1/15, PC
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PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
G01N37/00,
PC C12N15/00,C12N5/00,C12N15/00
CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
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FT Location/Qualifiers
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/organism='Homo sapiens'
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FEATURES
source

Query Match 45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 20;
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QY 1019 TTCTGCCCA 1027
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2 TTCTGCCCA 10

Db 2 TTCTGCCCA 10

RESULT 8
BD239813 10 bp DNA linear PAT 17-JUL-2003

LOCUS
BD239813

DEFINITION
Preparation and use of superior vaccines.

ACCESSION
BD239813

VERSION
BD239813.1 GI:33049583

KEYWORDS
JP 2002534056-A/1231.

SOURCE
Homo sapiens (human)

ORGANISM
Homo sapiens

REFERENCE
1 (bases 1 to 10)
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

AUTHORS
Roberts,B.L. and Shankara,S.

TITLE
Preparation and use of superior vaccines

JOURNAL
Patent: JP 2002534056-A 1231 15-OCT-2002;

GENZYME CORP

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COMMENT
OS Homo sapiens (human)
PN JP 2002534056-A/1231
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR
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19-JUN-1998 US 60/089878,19-JUN-1998 US 60/089991 PR
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19-JUN-1998 US 60/089994,19-JUN-1998 US 60/090077 PR
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19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR
08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS, SRINIVAS SHANKARA
PC C12N15/09, C12N15/09, A61K39/00, A61P35/00, A61P37/04, C12N1/15, PC
C12N1/19,
PC C12N1/21, C12N5/10, G01N33/15, G01N33/50, G01N33/53, G01N33/566, PC
G01N37/00,
PC C12N15/00, C12N5/00, C12N15/00
CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
FT source 1. 10
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1. 10
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FEATURES
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/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

Query Match 45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1028 AGAAGGTGG 1036
Db 2 AGAAGGTGG 10

RESULT 9
LOCUS C0836692 11 bp DNA linear PAT 29-JUL-2004
DEFINITION Sequence 1750 from Patent WO2004059001.
ACCESSION C0836692
VERSION C0836692.1 GI:50836226
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 Petersohn,D., Schloemann,K., Gassenmeier,T., Holtkoetter,O.,
Conradt,M. and Hofmann,K.
TITLE Method for determining markers of human facial skin
JOURNAL Patent: WO 2004059001-A 1750 15-JUL-2004;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source
1. 11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1028 AGAAGGTGG 1036
Db 2 AGAAGGTGG 10

COMMENT
OS Homo sapiens (human)
PN JP 2002534056-A/1231
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR
19-JUN-1998 US 60/089997,19-JUN-1998 US 60/090079 PR
19-JUN-1998 US 60/090035,19-JUN-1998 US 60/089993 PR
19-JUN-1998 US 60/089992,19-JUN-1998 US 60/090072 PR
19-JUN-1998 US 60/089878,19-JUN-1998 US 60/089991 PR
19-JUN-1998 US 60/090000,19-JUN-1998 US 60/090048 PR
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19-JUN-1998 US 60/089994,19-JUN-1998 US 60/090077 PR
19-JUN-1998 US 60/090078,19-JUN-1998 US 60/090047 PR
19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR
08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS, SRINIVAS SHANKARA
PC C12N15/09, C12N15/09, A61K39/00, A61P35/00, A61P37/04, C12N1/15, PC
C12N1/19,
PC C12N1/21, C12N5/10, G01N33/15, G01N33/50, G01N33/53, G01N33/566, PC
G01N37/00,
PC C12N15/00, C12N5/00, C12N15/00
CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
FT source 1. 10
Location/Qualifiers
1. 10
/organism="Homo sapiens (human)".

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/db_xref="taxon:9606"

Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1028 AGAAGGTGG 1036
Db 2 AGAAGGTGG 10

RESULT 10
LOCUS AR353840/c 11 bp DNA linear PAT 17-AUG-2003
DEFINITION Sequence 15 from patent US 6593111.
ACCESSION AR353840
VERSION AR353840.1 GI:33759907
KEYWORDS
SOURCE
ORGANISM Unknown.
Unclassified.
1 (bases 1 to 11)
REFERENCE
Barric,R.S. and Young,B.
TITLE Directional assembly of large viral genomes and chromosomes
JOURNAL Patent: US 6593111-A 15 15-JUL-2003;
Henkel Kommanditgesellschaft auf Aktien (DE)
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/organism="unknown"
/mol_type="genomic DNA"

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Best Local Similarity 100.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1025 CCAAGGAGG 1033
Db 10 CCAAGGAGG 2

RESULT 11
LOCUS AX625163 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 2204 from Patent WO2053774.
ACCESSION AX625163
VERSION AX625163.1 GI:28453104
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 2204 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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1. 11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1018 CTTCTGCC 1026
Db 9 CTTCTGCC 1

RESULT 12
LOCUS AX632584/c 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 9626 from Patent WO2053774.
ACCESSION AX632584
VERSION AX632584.1 GI:28468199
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
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REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 9626 11-JUN-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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/organism="Homo sapiens"
/mol_type="unassigned DNA"
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Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1018 CTTCTGCC 1026
Db 9 CTTCTGCC 1
RESULT 13
AR349259/c 12 bp DNA linear PAT 17-AUG-2003
LOCUS AR349259
DEFINITION Sequence 6 from patent US 6583986.
ACCESSION AR349259
VERSION AR349259.1 GI:33749984
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 12)
AUTHORS Scotti,W.J., Stibley,K., Ovadia,S., Kimball,S. and Falvo,B.
TITLE Method and apparatus for managing thermal energy emissions
JOURNAL Patent: US 6583986-A 6 24-JUN-2003;
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source 1. .12
/organism="unknown"
/mol_type="genomic DNA"
Query Match 45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1023 GCCCAAGAA 1031
Db 10 GCCCAAGAA 2
RESULT 14
AR349261/c 12 bp DNA linear PAT 17-AUG-2003
LOCUS AR349261
DEFINITION Sequence 8 from patent US 6583986.
ACCESSION AR349261
VERSION AR349261.1 GI:33749986
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 12)
AUTHORS Scotti,W.J., Stibley,K., Ovadia,S., Kimball,S. and Falvo,B.
TITLE Method and apparatus for managing thermal energy emissions
JOURNAL Patent: US 6583986-A 8 24-JUN-2003;
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source 1. .12
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/mol_type="genomic DNA"
Query Match 45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1023 GCCCAAGAA 1031
Db 10 GCCCAAGAA 2

Db 10 GCCCAAGAA 2
RESULT 15
A92569 10 bp DNA linear PAT 22-JAN-2000
LOCUS A92569
DEFINITION Sequence 10 from Patent WO9812320.
ACCESSION A92569
VERSION A92569.1 GI:6741228
KEYWORDS
SOURCE unidentified
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 10)
AUTHORS Stoecklin,E. and Groner,B.
TITLE NUCLEIC ACID CONSTRUCT CODING FOR A PROTEIN COMPLEX FROM A STAT
JOURNAL PROTEIN AND A NUCLEAR RECEPTOR AND ITS USE
Patent: WO 9812320-A 10 26-MAR-1998;
STOECKLIN ELISABETH (CH); GRONER BERND (CH)
FEATURES
source 1. .10
/organism="unidentified"
/mol_type="unassigned DNA"
/db_xref="taxon:32644"
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1022 TGCCCAAGAA 1031
Db 1 TTCCCAAGAA 10
RESULT 16
AR043677 10 bp DNA linear PAT 29-SEP-1999
LOCUS AR043677
DEFINITION Sequence 47 from patent US 5814517.
ACCESSION AR043677
VERSION AR043677.1 GI:5964685
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 10)
AUTHORS Seidel,H.,Martin. and Lamb,I.,Peter.
TITLE DNA spacer regulatory elements responsive to cytokines and methods
JOURNAL Patent: US 5814517-A 47 29-SEP-1998;
FEATURES
source 1. .10
/organism="unknown"
/mol_type="unassigned DNA"
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1022 TGCCCAAGAA 1031
Db 1 TTCCCAAGAA 10
RESULT 17
BD238844 10 bp DNA linear PAT 17-JUL-2003
LOCUS BD238844
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD238844
VERSION BD238844.1 GI:33048614
KEYWORDS UP 2002534056-A/262.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE 1 (bases 1 to 10)
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 262 15-OCT-2002;
GENZYME CORP
COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/262
PD 15-OCT-2002
PR 18-JUN-1998 JP 2000554749 60/090039,19-JUN-1998 US 60/090040 PR
19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR
19-JUN-1998 US 60/089997,19-JUN-1998 US 60/090079 PR
19-JUN-1998 US 60/090035,19-JUN-1998 US 60/089993 PR
19-JUN-1998 US 60/089992,19-JUN-1998 US 60/089972 PR
19-JUN-1998 US 60/089878,19-JUN-1998 US 60/089991 PR
19-JUN-1998 US 60/090000,19-JUN-1998 US 60/090048 PR
19-JUN-1998 US 60/089999,19-JUN-1998 US 60/090043 PR
19-JUN-1998 US 60/090042,19-JUN-1998 US 60/090036 PR
19-JUN-1998 US 60/090044,19-JUN-1998 US 60/089844 PR
19-JUN-1998 US 60/080080,19-JUN-1998 US 60/089833 PR
19-JUN-1998 US 60/089994,19-JUN-1998 US 60/090077 PR
19-JUN-1998 US 60/090078,19-JUN-1998 US 60/090047 PR
19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR
08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS,SRINIVAS SHANKARA
PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
C12N1/19,
PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
G01N37/00,
PC C12N15/00,C12N5/00,C12N15/00
CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
FT source 1..10 /organism='Homo sapiens (human)'.
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/organism='Homo sapiens'
/mol_type='genomic DNA'
/db_xref='taxon:9606'

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1022 TGCCCAAGAA 1031
Db 10 TGCCCAAGCA 1

RESULT 18
BD239019/c 10 bp DNA linear PAT 17-JUL-2003
LOCUS BD239019
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD239019
VERSION BD239019.1 GI:33048789
KEYWORDS JP 2002534056-A/437.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 10)
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 437 15-OCT-2002;
GENZYME CORP
COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/437
PD 15-OCT-2002
PR 18-JUN-1998 JP 2000554749 60/090039,19-JUN-1998 US 60/090040 PR
19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR
19-JUN-1998 US 60/089997,19-JUN-1998 US 60/090079 PR

19-JUN-1998 US 60/090035,19-JUN-1998 US 60/089993 PR
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19-JUN-1998 US 60/089878,19-JUN-1998 US 60/089991 PR
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19-JUN-1998 US 60/090044,19-JUN-1998 US 60/089844 PR
19-JUN-1998 US 60/090080,19-JUN-1998 US 60/089833 PR
19-JUN-1998 US 60/089994,19-JUN-1998 US 60/090077 PR
19-JUN-1998 US 60/090078,19-JUN-1998 US 60/090047 PR
19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR
08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS,SRINIVAS SHANKARA
PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
C12N1/19,
PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
G01N37/00,
PC C12N15/00,C12N5/00,C12N15/00
CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
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/mol_type='genomic DNA'
/db_xref='taxon:9606'

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1027 AAGAGGTGG 1036
Db 10 AAGCAGGTGC 1

RESULT 19
BD240663 10 bp DNA linear PAT 17-JUL-2003
LOCUS BD240663
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD240663
VERSION BD240663.1 GI:33050433
KEYWORDS JP 2002534056-A/2081.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 10)
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 2081 15-OCT-2002;
GENZYME CORP
COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/2081
PD 15-OCT-2002
PR 18-JUN-1998 JP 2000554749 60/090039,19-JUN-1998 US 60/090040 PR
19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR
19-JUN-1998 US 60/089997,19-JUN-1998 US 60/090079 PR
19-JUN-1998 US 60/090035,19-JUN-1998 US 60/089993 PR
19-JUN-1998 US 60/089992,19-JUN-1998 US 60/089991 PR
19-JUN-1998 US 60/090042,19-JUN-1998 US 60/090043 PR
19-JUN-1998 US 60/090044,19-JUN-1998 US 60/090036 PR
19-JUN-1998 US 60/090044,19-JUN-1998 US 60/089844 PR
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19-JUN-1998 US 60/089994,19-JUN-1998 US 60/090078 PR
19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR
08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS,SRINIVAS SHANKARA

PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
C12N1/19,
PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
G01N33/00,
PC C12N15/00,C12N5/00,C12N15/00
CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
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FT /organism="Homo sapiens (human)".

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/mol_type="Genomic DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAGGTGGG 1037
Db 1 AGAGGTGGG 10

RESULT 20
LOCUS CQ766709 10 bp DNA linear PAT 03-MAR-2004
DEFINITION Sequence 65 from Patent WO2004005541.
ACCESSION CQ766709
VERSION CQ766709.1 GI:44908939
KEYWORDS
SOURCE
ORGANISM
synthetic construct
artificial sequences.

REFERENCE
1
AUTHORS van Broeckhoven,C., de Jonghe,P., Timmerman,V. and Verhoeven,K.
TITLE Diagnostic tests for the detection of peripheral neuropathy
JOURNAL Patent: WO 2004005541-A 65 15-JAN-2004;
Vlaams Interuniversitair Instituut voor Biotechnologie vzw, w. (BE)
LOCATION/Qualifiers
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/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="3-intron/exon, exon 4, gene RAB7"

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAGGTGGG 1037
Db 1 AGAGGTGGG 10

RESULT 21
LOCUS AR303500 10 bp DNA linear PAT 12-JUN-2003
DEFINITION Sequence 225 from patent US 6544736.
ACCESSION AR303500
VERSION AR303500.1 GI:11692276
KEYWORDS
SOURCE
ORGANISM
Unknown.
Unclassified.
1 (bases 1 to 10)
REFERENCE
AUTHORS Shimamoto,A., Furuchi,Y., Shibata,Y., Funaki,H., Ohara,E. and
Watabiki,M.
TITLE Method for synthesizing cDNA from mRNA sample
JOURNAL Patent: US 6544736-A 225 08-APR-2003;
LOCATION/Qualifiers
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/organism="unknown"

/mol_type="genomic DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1021 CTGCCAAGA 1030
Db 10 CTGCTCAGA 1

RESULT 22
LOCUS AX152798 10 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 713 from Patent WO0138577.
ACCESSION AX152798
VERSION AX152798.1 GI:14534449
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
1
AUTHORS Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
TITLE Human transcriptomes
JOURNAL Patent: WO 0138577-A 713 31-MAY-2001;
The Johns Hopkins University (US)
LOCATION/Qualifiers
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Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1023 GCCCAGAAG 1032
Db 1 GCACAGAAG 10

RESULT 23
LOCUS AX301616 10 bp DNA linear PAT 30-NOV-2001
DEFINITION Sequence 330 from Patent WO0185941.
ACCESSION AX301616
VERSION AX301616.1 GI:17382699
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
1
AUTHORS Versteeg,R. and Caron,H.N.
TITLE Myc targets
JOURNAL Patent: WO 0185941-A 330 15-NOV-2001;
Academisch Ziekenhuis bij de Universiteit van Amsterdam (NL)
LOCATION/Qualifiers
1..10
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1023 GCCCAGAAG 1032
Db 1 GCACAGAAG 10

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RESULT 24
AX374630/c      10 bp   DNA      linear      PAT 01-MAR-2002
LOCUS           Sequence 51 from Patent WO0210454.
DEFINITION      AX374630
ACCESSION       AX374630.1 GI:19169527
VERSION         AX374630.1 GI:19169527
KEYWORDS
SOURCE          Homo sapiens (human)
ORGANISM        Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE
1 Choi,J.Y., Koshy,B., Kiem,S. and Stephens,J.C.
  Haplotypes of the alas2 gene
  Patent: WO 0210454-A 51 07-FEB-2002;
  Genaisance Pharmaceuticals, Inc. (US)

FEATURES
source          Location/Qualifiers
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               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match     42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1023 GCCCAGAG 1032
Db      10 GCCCAGATG 1

RESULT 25
AX805907        10 bp   DNA      linear      PAT 25-NOV-2003
LOCUS           Sequence 53 from Patent WO03060163.
DEFINITION      AX805907
ACCESSION       AX805907
VERSION         AX805907.1 GI:38522818
KEYWORDS
SOURCE          synthetic construct
ORGANISM        synthetic construct
artificial sequences.

REFERENCE
1 van Eijk,M.J. and van Schaik,C.
  Discrimination and detection of target nucleotide sequences using
  mass spectrometry
  Patent: WO 03060163-A 53 24-JUL-2003;
  Keygene N.V. (NL)

FEATURES
source          Location/Qualifiers
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               /organism="synthetic construct"
               /mol_type="unassigned DNA"
               /db_xref="taxon:32630"
               /note="stuffer sequence"

Query Match     42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1028 AGAAGGTGGG 1037
Db      1 AGAGGTGGG 10

RESULT 26
BD161343/c      10 bp   DNA      linear      PAT 17-JAN-2003
LOCUS           Human activated Th1 and Th2 cell expression genes.
DEFINITION      BD161343
ACCESSION       BD161343.1 GI:27867101
VERSION         BD161343.1 GI:27867101
KEYWORDS        JP 2002186482-A/165;
SOURCE          Homo sapiens (human)
ORGANISM        Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
```

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Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 10)
AUTHORS         Nagai,S., Matsushima,K. and Hashimoto,S.
TITLE           Human activated Th1 and Th2 cell expression genes
JOURNAL         Patent: JP 2002186482-A 165 02-JUL-2002;
                JAPAN SCIENCE AND TECHNOLOGY CORP

COMMENT
OS Homo sapiens (human)
PN JP 2002186482-A/165
PD 02-JUL-2002
PF 19-DEC-2000 JP 2000385816
PI SHIGENORI NAGAI, KOJI MATSUSHIMA, SHINICHI HASHIMOTO PC
C12N15/09,C07K14/47,C07K16/18,C12P21/08,C12N15/00 CC Human
activated Th1 and Th2 cell expression genes FH Key
Location/Qualifiers
FT source      1..10
               /organism="Homo sapiens (human)".

FEATURES
source          Location/Qualifiers
               1..10
               /organism="unidentified"
               /mol_type="genomic DNA"
               /db_xref="taxon:32644"

Query Match     42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1023 GCCCAGAG 1032
Db      1 GCCCAGAG 10

RESULT 27
BD166511        10 bp   DNA      linear      PAT 17-JAN-2003
LOCUS           Human liver disease-expressing genes.
DEFINITION      BD166511
ACCESSION       BD166511
VERSION         BD166511.1 GI:27872323
KEYWORDS        JP 2002209591-A/56.
SOURCE          unidentified
ORGANISM        unidentified
unclassified.

REFERENCE
1 (bases 1 to 10)
AUTHORS         Matsushima,K., Hashimoto,S., Kaneko,S. and Yamashita,T.
TITLE           Human liver disease-expressing genes
JOURNAL         Patent: JP 2002209591-A 56 30-JUL-2002;
                JAPAN SCIENCE AND TECHNOLOGY CORP

COMMENT
OS Homo sapiens (human)
PN JP 2002209591-A/56
PD 30-JUL-2002
PF 19-JAN-2001 JP 2001012328
PI KOJI MATSUSHIMA, SHINICHI HASHIMOTO, SHUICHI KANEKO, TARO PI
YAMASHITA
PC C12N15/09,C07K14/47,C07K16/18,G01N33/15,G01N33/50//C12P21/02,
PC C12P21/08,
PC C12N15/00
CC Human liver disease-expressing genes
FH Key          Location/Qualifiers
FT source      1..10
               /organism="Homo sapiens (human)".

FEATURES
source          Location/Qualifiers
               1..10
               /organism="unidentified"
               /mol_type="genomic DNA"
               /db_xref="taxon:32644"

Query Match     42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1023 GCCCAGAG 1032
Db      1 GCCCAGAG 10
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RESULT 28
LOCUS AR074494 11 bp DNA linear PAT 28-AUG-2000
DEFINITION Sequence 73 from patent US 5955075.
ACCESSION AR074494
VERSION AR074494.1 GI:10001249
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS 1 (bases 1 to 11)
TITLE Method of inhibiting tumor growth using antibodies to MN protein
JOURNAL Patent: US 5955075-A 73 21-SEP-1999;
FEATURES
SOURCE
/mol_type="unassigned DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1028 AGAAGTGGG 1037
|||
1 AGCAGGTGG 10

Db

RESULT 29
LOCUS AR081174 11 bp DNA linear PAT 31-AUG-2000
DEFINITION Sequence 73 from patent US 5972353.
ACCESSION AR081174
VERSION AR081174.1 GI:10007902
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS 1 (bases 1 to 11)
TITLE Zavada,J., Pastorekova,S. and Pastorek,J.
JOURNAL MN proteins, polypeptides, fusion proteins and fusion polypeptides
Patent: US 5972353-A 73 26-OCT-1999;
FEATURES
SOURCE
/mol_type="unassigned DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1028 AGAAGTGGG 1037
|||
1 AGCAGGTGG 10

Db

RESULT 30
LOCUS AR085371 11 bp DNA linear PAT 01-SEP-2000
DEFINITION Sequence 73 from patent US 5981711.
ACCESSION AR085371
VERSION AR085371.1 GI:10012140
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS 1 (bases 1 to 11)
TITLE Zavada,J., Pastorekova,S. and Pastorek,J.
JOURNAL MN-specific antibodies and hybridomas
Patent: US 5981711-A 73 09-NOV-1999;
FEATURES
SOURCE
/mol_type="unassigned DNA"

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/mol_type="unassigned DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1028 AGAAGTGGG 1037
|||
1 AGCAGGTGG 10

Db

RESULT 31
LOCUS AR088119 11 bp DNA linear PAT 07-SEP-2000
DEFINITION Sequence 73 from patent US 5989838.
ACCESSION AR088119
VERSION AR088119.1 GI:10014882
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS 1 (bases 1 to 11)
TITLE Zavada,J., Pastorekova,S. and Pastorek,J.
JOURNAL Immunological methods of detecting MN proteins and MN polypeptides
Patent: US 5989838-A 73 23-NOV-1999;
FEATURES
SOURCE
/mol_type="unassigned DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1028 AGAAGTGGG 1037
|||
1 AGCAGGTGG 10

Db

RESULT 32
LOCUS AR104278 11 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 73 from patent US 6093548.
ACCESSION AR104278
VERSION AR104278.1 GI:12816986
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS 1 (bases 1 to 11)
TITLE Zavada,J., Pastorekova,S. and Pastorek,J.
JOURNAL Detection and quantitation of MN-specific antibodies
Patent: US 6093548-A 73 25-JUL-2000;
FEATURES
SOURCE
/mol_type="unassigned DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1028 AGAAGTGGG 1037
|||
1 AGCAGGTGG 10

Db

RESULT 33
LOCUS AR143540 11 bp DNA linear PAT 08-AUG-2001
DEFINITION Sequence 73 from patent US 6204370.
ACCESSION AR143540

```

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VERSION      ARI43540.1  GI:15104826
KEYWORDS
SOURCE       Unknown.
ORGANISM     Unclassified.
REFERENCE    1 (bases 1 to 11)
AUTHORS     Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE       MN gene and protein
JOURNAL     Patent: US 6204370-A 73 20-MAR-2001;
FEATURES
SOURCE       1. .11
              /organism="unknown"
              /mol_type="unassigned DNA"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1028 AGAAGGTGGG 1037
Db      1 AGCAGGTGGG 10

RESULT 34
LOCUS      ARI71446                      11 bp  DNA          linear  PAT 17-DEC-2001
DEFINITION Sequence 73 from patent US 6297041.
ACCESSION  ARI71446
VERSION    ARI71446.1  GI:17910396
KEYWORDS
SOURCE     Unknown.
ORGANISM   Unclassified.
REFERENCE  1 (bases 1 to 11)
AUTHORS   Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE     MN gene and protein
JOURNAL   Patent: US 6297041-A 73 02-OCT-2001;
FEATURES
SOURCE     1. .11
              /organism="unknown"
              /mol_type="unassigned DNA"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1028 AGAAGGTGGG 1037
Db      1 AGCAGGTGGG 10

RESULT 35
LOCUS      ARI71617                      11 bp  DNA          linear  PAT 17-DEC-2001
DEFINITION Sequence 73 from patent US 6297051.
ACCESSION  ARI71617
VERSION    ARI71617.1  GI:17910567
KEYWORDS
SOURCE     Unknown.
ORGANISM   Unclassified.
REFERENCE  1 (bases 1 to 11)
AUTHORS   Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE     MN gene and protein
JOURNAL   Patent: US 6297051-A 73 02-OCT-2001;
FEATURES
SOURCE     1. .11
              /organism="unknown"
              /mol_type="unassigned DNA"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1028 AGAAGGTGGG 1037
Db      1 AGCAGGTGGG 10
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QY      1028 AGAAGGTGGG 1037
Db      1 AGCAGGTGGG 10

RESULT 36
LOCUS      BD243207                      11 bp  DNA          linear  PAT 17-JUL-2003
DEFINITION MN gene and protein.
ACCESSION  BD243207
VERSION    BD243207.1  GI:33052977
KEYWORDS   JP 2002528085-A/56.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
REFERENCE  1 (bases 1 to 11)
AUTHORS   Zavada,J., Pastorekova,S. and Pastorek,J.
TITLE     MN gene and protein
JOURNAL   Patent: JP 2002528085-A 56 03-SEP-2002;
INSTITUTE  OF VIROLOGY
COMMENT    OS Homo sapiens (human)
           PN JP 2002528085-A/56
           PD 03-SEP-2002
           PR 22-OCT-1999  JP 2000578465
           PR 23-OCT-1998  US 09/177776,23-OCT-1998  US 09/178115  PI
           JAN ZAVADA, SILVIA PASTOREKOVA, JAROMIR PASTOREK  PC
           C12N15/09,A61K38/00,A61K39/395,A61K39/395,A61K48/00,A61P35/00, PC
           C07K14/47,
           PC C12Q1/02,G01N33/566/(C12Q1/02,C12RI:91),C12N15/00,A61K37/02
           CC MN gene and protein
           FH Key
           FT source
           Location/Qualifiers
             1. .11
               /organism="Homo sapiens (human)".
             /organism="Homo sapiens"
             /mol_type="genomic DNA"
             /db_xref="taxon:9606"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1028 AGAAGGTGGG 1037
Db      1 AGCAGGTGGG 10

RESULT 37
LOCUS      CO833089                      11 bp  DNA          linear  PAT 29-JUL-2004
DEFINITION Sequence 460 from Patent WO2004059002.
ACCESSION  CO833089
VERSION    CO833089.1  GI:50832696
KEYWORDS
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
REFERENCE  1 (bases 1 to 11)
AUTHORS   Petersohn,D., Schlotmann,K., Gassenmeier,T., Holtkoetter,O.,
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
           Contrdt M. and Hofmann,K.
           Method for determining the homeostasis of hairy skin
           Patent: WO 2004059002-A 460 15-JUL-2004;
           Henkel Kommanditgesellschaft auf Aktien (DE)
           Location/Qualifiers
             1. .11
               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"
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Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 26;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1026 CAGAGAGTG 1035
 DB 11 CCAGAGAGTG 2

RESULT 38

LOCUS CO833231/c 11 bp DNA linear PAT 29-JUL-2004
 DEFINITION Sequence 602 from Patent WO2004059002.
 ACCESSION CO833231
 VERSION CO833231.1 GI:50832838
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
 AUTHORS Petersohn,D., Schlotmann,K., Gassenmeier,T., Holtkoetter,O.,
 Conradt,M. and Hofmann,K.
 TITLE Method for determining the homeostasis of hairy skin
 JOURNAL Patent: WO 2004059002-A 602 15-JUL-2004;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

FEATURES
 source location/Qualifiers
 1..11
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 26;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1021 CTGCCCAAGA 1030
 DB 10 CTGCCCAAAA 1

RESULT 39
 LOCUS CO835108 11 bp DNA linear PAT 29-JUL-2004
 DEFINITION Sequence 166 from Patent WO2004059001.
 ACCESSION CO835108
 VERSION CO835108.1 GI:50834642
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
 AUTHORS Petersohn,D., Schlotmann,K., Gassenmeier,T., Holtkoetter,O.,
 Conradt,M. and Hofmann,K.
 TITLE Method for determining markers of human facial skin
 JOURNAL Patent: WO 2004059001-A 166 15-JUL-2004;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

FEATURES
 source location/Qualifiers
 1..11
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 26;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1023 GCCCAAGAG 1032
 DB 1 GCACCAAGAG 10

RESULT 40
 LOCUS CO835129 11 bp DNA linear PAT 29-JUL-2004
 DEFINITION Sequence 187 from Patent WO2004059001.
 ACCESSION CO835129
 VERSION CO835129.1 GI:50834663
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
 AUTHORS Petersohn,D., Schlotmann,K., Gassenmeier,T., Holtkoetter,O.,
 Conradt,M. and Hofmann,K.
 TITLE Method for determining markers of human facial skin
 JOURNAL Patent: WO 2004059001-A 187 15-JUL-2004;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

FEATURES
 source location/Qualifiers
 1..11
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 26;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1027 AAGAGGTGG 1036
 DB 2 AAGAGAGTGG 11

RESULT 41
 LOCUS CO836261 11 bp DNA linear PAT 29-JUL-2004
 DEFINITION Sequence 1319 from Patent WO2004059001.
 ACCESSION CO836261
 VERSION CO836261.1 GI:50835795
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
 AUTHORS Petersohn,D., Schlotmann,K., Gassenmeier,T., Holtkoetter,O.,
 Conradt,M. and Hofmann,K.
 TITLE Method for determining markers of human facial skin
 JOURNAL Patent: WO 2004059001-A 1319 15-JUL-2004;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

FEATURES
 source location/Qualifiers
 1..11
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 26;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1021 CTGCCCAAGA 1030
 DB 2 CTGCCCAAGA 11

RESULT 42
 LOCUS CO837388/c 11 bp DNA linear PAT 29-JUL-2004
 DEFINITION Sequence 2446 from Patent WO2004059001.
 ACCESSION CO837388
 VERSION CO837388.1 GI:50836922
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source

1
Petersohn,D., Schlotmann,K., Gassemeier,T., Holtkoetter,O.,
Conradt,M. and Hofmann,K.
Method for determining markers of human facial skin
Patent: WO 2004059001-A 2446 15-JUL-2004;
Henkel Kommanditgesellschaft auf Aktien (HE)
Location/Qualifiers
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAAGTGGG 1037
11 AGAAGTGGG 2

RESULT 43
LOCUS CO837393 11 bp DNA linear PAT 29-JUL-2004
DEFINITION Sequence 2451 from Patent WO2004059001.
ACCESSION CO837393
VERSION CO837393.1 GI:50836927
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens (human)
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source

1
Petersohn,D., Schlotmann,K., Gassemeier,T., Holtkoetter,O.,
Conradt,M. and Hofmann,K.
Method for determining markers of human facial skin
Patent: WO 2004059001-A 2451 15-JUL-2004;
Henkel Kommanditgesellschaft auf Aktien (DE)
Location/Qualifiers
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1023 GCCCAGAGAG 1032
2 GCCCAGAGAG 11

RESULT 44
LOCUS CO837792 11 bp DNA linear PAT 29-JUL-2004
DEFINITION Sequence 2850 from Patent WO2004059001.
ACCESSION CO837792
VERSION CO837792.1 GI:50837326
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens (human)
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source

1
Petersohn,D., Schlotmann,K., Gassemeier,T., Holtkoetter,O.,
Conradt,M. and Hofmann,K.
Method for determining markers of human facial skin
Patent: WO 2004059001-A 2850 15-JUL-2004;
Henkel Kommanditgesellschaft auf Aktien (DE)
Location/Qualifiers

source
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1027 AAGAGGTGG 1036
10 AAGAGGTGG 1

RESULT 45
LOCUS I34822 11 bp DNA linear PAT 13-MAY-1997
DEFINITION Sequence 15 from patent US 5599673.
ACCESSION I34822
VERSION I34822.1 GI:2087790
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source

1
Keating,M.T., Curran,M.E. and Wang,Q.
Long QT syndrome genes
Patent: US 5599673-A 15 04-FEB-1997;
Location/Qualifiers
1. .11
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAAGTGGG 1037
1 AGAAGTGGG 10

RESULT 46
LOCUS AX412934 11 bp DNA linear PAT 14-JUN-2002
DEFINITION Sequence 698 from Patent WO0222675.
ACCESSION AX412934
VERSION AX412934.1 GI:21445392
KEYWORDS
SOURCE Arabidopsis thaliana (thale cress)
ORGANISM Arabidopsis thaliana
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source

1
Glazebrook,J., Wang,X., Dangl,J.L., Eulgem,T. and Zhu,T.
Plant genes, the expression of which are altered by pathogen
infection
Patent: WO 0222675-A 698 21-MAR-2002;
Syngenta Participations AG (CH); UNIVERSITY OF NORTH CAROLINA AT
CHAPEL HILL (US); Glazebrook, Jan (US); Wang, Xun (US); Dangl,
Jeffrey L. (US); Eulgem, Thomas (US)
Location/Qualifiers
1. .11
/organism="Arabidopsis thaliana"
/mol_type="unassigned DNA"
/db_xref="taxon:3702"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1019 TTCTGCCAA 1028

Db 11 TTTGCCCAA 2

RESULT 47
AX470593
LOCUS AX470593 11 bp DNA linear PAT 09-AUG-2002
DEFINITION Sequence 170 from Patent WO02053773.
ACCESSION AX470593
VERSION AX470593.1 GI:22205718
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Hofmann,K., Conradt,M. and Petersohn,D.
TITLE Method for determining skin stress or skin ageing in vitro
JOURNAL Patent: WO 02053773-A 170 11-JUL-2002;
HENKEL KGAA (DE)
FEATURES
source location/Qualifiers
1..11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1027 AAGAAAGTGG 1036
2 AAGAAAGTGG 11

RESULT 48
AX471678/c
LOCUS AX471678 11 bp DNA linear PAT 09-AUG-2002
DEFINITION Sequence 1255 from Patent WO02053773.
ACCESSION AX471678
VERSION AX471678.1 GI:22206803
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Hofmann,K., Conradt,M. and Petersohn,D.
TITLE Method for determining skin stress or skin ageing in vitro
JOURNAL Patent: WO 02053773-A 1255 11-JUL-2002;
HENKEL KGAA (DE)
FEATURES
source location/Qualifiers
1..11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1026 CAAGAAGTGG 1035
11 CCAGAAGTGG 2

RESULT 49
AX471682/c
LOCUS AX471682 11 bp DNA linear PAT 09-AUG-2002
DEFINITION Sequence 1259 from Patent WO02053773.
ACCESSION AX471682
VERSION AX471682.1 GI:22206807
KEYWORDS

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Hofmann,K., Conradt,M. and Petersohn,D.
TITLE Method for determining skin stress or skin ageing in vitro
JOURNAL Patent: WO 02053773-A 1259 11-JUL-2002;
HENKEL KGAA (DE)
FEATURES
source location/Qualifiers
1..11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1026 CAAGAAGTGG 1035
11 CAATAAGTGG 2

RESULT 50
AX623377
LOCUS AX623377 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 418 from Patent WO02053774.
ACCESSION AX623377
VERSION AX623377.1 GI:28451318
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 418 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source location/Qualifiers
1..11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1026 CAAGAAGTGG 1035
2 CAAGAAAGTGG 11

RESULT 51
AX623396/c
LOCUS AX623396 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 437 from Patent WO02053774.
ACCESSION AX623396
VERSION AX623396.1 GI:28451337
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 437 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source location/Qualifiers
1..11

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/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1028 AGAAGGTGG 1037
      |||||
      11 AGAAGCGCGG 2

RESULT 52
LOCUS      AX623509      11 bp      DNA      linear      PAT 21-FEB-2003
DEFINITION Sequence 550 from Patent WO02053774.
ACCESSION  AX623509
VERSION     AX623509.1 GI:28451450
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE
AUTHORS     1 Petersohn,D., Conradt,M. and Hofmann,K.
TITLE        Method for determining homeostasis of the skin
JOURNAL      Patent: WO 02053774-A 550 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source
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            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1027 AAGAAGTGG 1036
      |||||
      1 AAGAAGGTGG 10

RESULT 53
LOCUS      AX625581      11 bp      DNA      linear      PAT 21-FEB-2003
DEFINITION Sequence 2622 from Patent WO02053774.
ACCESSION  AX625581
VERSION     AX625581.1 GI:28453522
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE
AUTHORS     1 Petersohn,D., Conradt,M. and Hofmann,K.
TITLE        Method for determining homeostasis of the skin
JOURNAL      Patent: WO 02053774-A 2622 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source
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            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1027 AAGAAGTGG 1036
      |||||
      1 AAGAAGGTGG 10
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RESULT 54
LOCUS      AX626059/c      11 bp      DNA      linear      PAT 21-FEB-2003
DEFINITION Sequence 3100 from Patent WO02053774.
ACCESSION  AX626059
VERSION     AX626059.1 GI:28454097
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE
AUTHORS     1 Petersohn,D., Conradt,M. and Hofmann,K.
TITLE        Method for determining homeostasis of the skin
JOURNAL      Patent: WO 02053774-A 3100 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source
            1..11
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1028 AGAAGTGG 1037
      |||||
      11 AGAAGGTGG 2

RESULT 55
LOCUS      AX626126      11 bp      DNA      linear      PAT 21-FEB-2003
DEFINITION Sequence 3167 from Patent WO02053774.
ACCESSION  AX626126
VERSION     AX626126.1 GI:28454164
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE
AUTHORS     1 Petersohn,D., Conradt,M. and Hofmann,K.
TITLE        Method for determining homeostasis of the skin
JOURNAL      Patent: WO 02053774-A 3167 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source
            1..11
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

Query Match      42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1028 AGAAGTGG 1037
      |||||
      1 AGAAGGTGG 10

RESULT 56
LOCUS      AX626949/c      11 bp      DNA      linear      PAT 21-FEB-2003
DEFINITION Sequence 3990 from Patent WO02053774.
ACCESSION  AX626949
VERSION     AX626949.1 GI:28454987
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 Petersohn,D., Conradt,M. and Hofmann,K.
TITLE
Method for determining homeostasis of the skin
JOURNAL
WO 02053774-A 3990 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
Location/Qualifiers
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Db
1019 TTCTGCCCAA 1028
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Cy 1019 TTCTGCCCAA 1028
Db 10 TCCTGCCCAA 1

RESULT 57
AX627089 11 bp DNA linear PAT 21-FEB-2003
LOCUS
DEFINITION
Sequence 4130 from Patent WO02053774.
ACCESSION
AX627089
VERSION
AX627089.1 GI:28455127
KEYWORDS
Homo sapiens (human)
SOURCE
Homo sapiens
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 Petersohn,D., Conradt,M. and Hofmann,K.
TITLE
Method for determining homeostasis of the skin
JOURNAL
WO 02053774-A 4130 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
Location/Qualifiers
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Db
1022 TGCCCAAGAA 1031
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Cy 1022 TGCCCAAGAA 1031
Db 2 TGCCCAAGAA 11

RESULT 58
AX627751 11 bp DNA linear PAT 21-FEB-2003
LOCUS
DEFINITION
Sequence 4792 from Patent WO02053774.
ACCESSION
AX627751
VERSION
AX627751.1 GI:28455789
KEYWORDS
Homo sapiens (human)
SOURCE
Homo sapiens
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 Petersohn,D., Conradt,M. and Hofmann,K.
TITLE
Method for determining homeostasis of the skin
JOURNAL
WO 02053774-A 4792 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
Location/Qualifiers
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Db
1027 AAGAGGTGG 1036
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Cy 1027 AAGAGGTGG 1036
Db 10 AAGAGGTGG 1

RESULT 60
AX627837/c 11 bp DNA linear PAT 21-FEB-2003
LOCUS
DEFINITION
Sequence 4878 from Patent WO02053774.
ACCESSION
AX627837
VERSION
AX627837.1 GI:28455875
KEYWORDS
Homo sapiens (human)
SOURCE
Homo sapiens
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 Petersohn,D., Conradt,M. and Hofmann,K.
TITLE
Method for determining homeostasis of the skin
JOURNAL
WO 02053774-A 4878 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
Location/Qualifiers
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Db
1026 CAGAGGTG 1035
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Cy 1026 CAGAGGTG 1035
Db 11 CAGAGGTG 2

RESULT 61
AX627837/c 11 bp DNA linear PAT 21-FEB-2003
LOCUS
DEFINITION
Sequence 4878 from Patent WO02053774.
ACCESSION
AX627837
VERSION
AX627837.1 GI:28455875
KEYWORDS
Homo sapiens (human)
SOURCE
Homo sapiens
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 Petersohn,D., Conradt,M. and Hofmann,K.
TITLE
Method for determining homeostasis of the skin
JOURNAL
WO 02053774-A 4878 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
Location/Qualifiers
1. .11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Db
1027 AAGAGGTGG 1036
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Cy 1027 AAGAGGTGG 1036
Db 10 AAGAGGTGG 1

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RESULT 61
LOCUS AX628191/c 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 5232 from Patent WO02053774.
ACCESSION AX628191
VERSION AX628191.1 GI:28456229
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 5232 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source Location/Qualifiers
1..11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1026 CAAGAGGTG 1035
Db 11 CAATAGGTG 2

RESULT 62
LOCUS AX628263/c 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 5304 from Patent WO02053774.
ACCESSION AX628263
VERSION AX628263.1 GI:28456301
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 5304 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source Location/Qualifiers
1..11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1019 TTCTGCCCAA 1028
Db 11 TTCTACCCAA 2

RESULT 63
LOCUS AX629947 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 6988 from Patent WO02053774.
ACCESSION AX629947
VERSION AX629947.1 GI:28457985
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 6988 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source Location/Qualifiers
1..11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1023 GCCCAGAG 1032
Db 1 GCACAGAG 10

RESULT 64
LOCUS AX630798 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 7839 from Patent WO02053774.
ACCESSION AX630798
VERSION AX630798.1 GI:28458838
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 7839 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source Location/Qualifiers
1..11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1026 CAAGAGGTG 1035
Db 2 CAAGAAAGTG 11

RESULT 65
LOCUS AX630817/c 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 7858 from Patent WO02053774.
ACCESSION AX630817
VERSION AX630817.1 GI:28458857
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 7858 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source Location/Qualifiers
1..11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

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Query Match          42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1028 AGAAGGTGGG 1037
      |||||
      11 AGAAGGCGGG 2

Db

RESULT 66
LOCUS      AX630930          11 bp      DNA          linear      PAT 21-FEB-2003
DEFINITION Sequence 7971 from Patent WO02053774.
ACCESSION  AX630930
VERSION     AX630930.1 GI:28458972
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE   1
AUTHORS    Petersohn,D., Conradt,M. and Hofmann,K.
TITLE      Method for determining homeostasis of the skin
JOURNAL    Patent: WO 02053774-A 7971 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
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    /organism="Homo sapiens"
    /mol_type="unassigned DNA"
    /db_xref="taxon:9606"

Query Match          42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1027 AAGAGGTGGG 1036
      |||||
      1 AAGGAGGTGG 10

Db

RESULT 67
LOCUS      AX632853/c          11 bp      DNA          linear      PAT 21-FEB-2003
DEFINITION Sequence 9895 from Patent WO02053774.
ACCESSION  AX632853
VERSION     AX632853.1 GI:28468468
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE   1
AUTHORS    Petersohn,D., Conradt,M. and Hofmann,K.
TITLE      Method for determining homeostasis of the skin
JOURNAL    Patent: WO 02053774-A 9895 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
  source
    1..11
    /organism="Homo sapiens"
    /mol_type="unassigned DNA"
    /db_xref="taxon:9606"

Query Match          42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 26;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1020 TCTGCCCAAG 1029
      |||||
      11 TGTGCCCAAG 2

Db

RESULT 68
LOCUS      AX480947          9 bp      DNA          linear      PAT 12-AUG-2002
DEFINITION Sequence 7 from Patent WO0246412.
ACCESSION  AX480947
VERSION     AX480947.1 GI:22217586
KEYWORDS
SOURCE      synthetic construct
            synthetic construct
            artificial sequences.
ORGANISM
REFERENCE   1
AUTHORS    Rebar,E., Jamieson,A., Liu,Q., Liu,P.Q., Wolffe,A., Eisenberg,S.P.
            and Jarvis,E.
TITLE      Regulation of angiogenesis with zinc finger proteins
JOURNAL    Patent: WO 0246412-A 7 13-JUN-2002;
            Sangamo Biosciences Inc. (US)
FEATURES
  source
    1..9
    /organism="synthetic construct"
    /mol_type="genomic DNA"
    /db_xref="taxon:32630"
    /note="target"

Query Match          40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1020 TCTGCCCA 1027
      |||||
      8 TCTGCCCA 1

Db

RESULT 69
LOCUS      AX668629          9 bp      DNA          linear      PAT 26-MAR-2003
DEFINITION Sequence 2078 from Patent WO0242459.
ACCESSION  AX668629
VERSION     AX668629.1 GI:29291602
KEYWORDS
SOURCE      synthetic construct
            synthetic construct
            artificial sequences.
ORGANISM
REFERENCE   1
AUTHORS    Liu,Q.
TITLE      Position dependent recognition of gnn nucleotide triplets by zinc
            fingers
JOURNAL    Patent: WO 0242459-A 2078 30-MAY-2002;
            Sangamo Biosciences Inc. (US)
FEATURES
  source
    1..9
    /organism="synthetic construct"
    /mol_type="genomic DNA"
    /db_xref="taxon:32630"
    /note="example target"

Query Match          40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1030 AAGGTGGG 1037
      |||||
      1 AAGGTGGG 8

Db

RESULT 70
LOCUS      AX668630          9 bp      DNA          linear      PAT 26-MAR-2003
DEFINITION Sequence 2079 from Patent WO0242459.
ACCESSION  AX668630
VERSION     AX668630.1 GI:29291603
KEYWORDS
SOURCE      synthetic construct
            synthetic construct
            artificial sequences.
ORGANISM
REFERENCE   1
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AUTHORS Liu, Q.
TITLE Position dependent recognition of gmn nucleotide triplets by zinc fingers
JOURNAL Patent: WO 0242459-A 2079 30-MAY-2002;
Sangamo Biosciences Inc. (US)
FEATURES Location/Qualifiers
source 1..9
/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"
/note="example target DNA"

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1030 AAGGTGG 1037
|||||
1 AAGGTGG 8

Db

RESULT 71
AX668813 9 bp DNA linear PAT 26-MAR-2003
LOCUS Sequence 2262 from Patent WO0242459.
ACCESSION AX668813
VERSION AX668813.1 GI:29291788
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
artificial sequences.

REFERENCE 1
AUTHORS Liu, Q.
TITLE Position dependent recognition of gmn nucleotide triplets by zinc fingers
JOURNAL Patent: WO 0242459-A 2262 30-MAY-2002;
Sangamo Biosciences Inc. (US)
FEATURES Location/Qualifiers
source 1..9
/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"
/note="example target DNA"

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1028 AGAAGTG 1035
|||||
2 AGAAGTG 9

Db

RESULT 72
AX668814 9 bp DNA linear PAT 26-MAR-2003
LOCUS Sequence 2263 from Patent WO0242459.
ACCESSION AX668814
VERSION AX668814.1 GI:29291789
KEYWORDS
SOURCE
ORGANISM
synthetic construct
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artificial sequences.

REFERENCE 1
AUTHORS Liu, Q.
TITLE Position dependent recognition of gmn nucleotide triplets by zinc fingers
JOURNAL Patent: WO 0242459-A 2263 30-MAY-2002;
Sangamo Biosciences Inc. (US)
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2 AGAAGTG 9

Db

RESULT 73
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LOCUS Homo sapiens gene for endothelin-A receptor, cis_element region.
DEFINITION AB012724
ACCESSION AB012724.1 GI:3273319
VERSION
KEYWORDS
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ORGANISM
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (sites)
AUTHORS Hosoda, K., Nakao, K., Tamura, N., Arai, H., Ogawa, Y., Suga, S., Nakaniishi, S., and Imura, H.
TITLE Organization, structure, chromosomal assignment, and expression of the gene encoding the human endothelin-A receptor
J. Biol. Chem. 267 (26), 18797-18804 (1992)

JOURNAL 92406798
MEDLINE 1326535
PUBMED 2 (sites)
REFERENCE 2 (sites)
AUTHORS Yamashita, J., Yoshimasa, T., Arai, H., Hiraoka, J., Takaya, K., Miyamoto, Y., Ogawa, Y., Itoh, H., and Nakao, K.
TITLE Identification of cis-elements of the human endothelin-A receptor gene and inhibition of the gene expression by the decoy strategy
J. Biol. Chem. 273 (26), 15993-15999 (1998)

JOURNAL 98298101
MEDLINE 9632648
PUBMED 3 (bases 1 to 9)
REFERENCE 3 (bases 1 to 9)
AUTHORS Yamashita, J., Yoshimasa, T., Arai, H., Itoh, H. and Nakao, K.
TITLE Direct Submission
JOURNAL Submitted (02-APR-1998) Jun Yamashita, Kyoto University Graduate School of Medicine, Department of Medicine and Clinical Science; 54 Shogoin Kawahara-cho, Sakyo-ku, Kyoto 606, Japan (E-mail:juny@kuhp.kyoto-u.ac.jp, Tel:81-75-751-3170, Fax:81-75-771-9452)

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Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db

RESULT 74
A15662 10 bp DNA linear PAT 10-FEB-1994
LOCUS oligonucleotide.
DEFINITION A15662
ACCESSION A15662
VERSION A15662.1 GI:489794
KEYWORDS
SOURCE
synthetic construct

ORGANISM synthetic construct
artificial sequences.
REFERENCE 1 (bases 1 to 10)
AUTHORS Verrips,C.T., Ledebber,A.M., Edens,L., Klok,R. and Maat,J.
TITLE DNA sequences encoding various allelic forms of mature thaumatin,
recombinant plasmids comprising said DNA's and a process for their
preparation, bacterial cultures comprising said recombinant
plasmids, and method for producing mature thaumatin
Patent: EP 0054330-A 4 23-JUN-1992;
JOURNAL UNILEVER NV; UNILEVER PLC
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Best Local Similarity 100.0%; Pred. No. 35;
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Qy 1029 AGAGTGG 1036
Db 9 GAAGGTGG 2

RESULT 75
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LOCUS BD238780 10 bp DNA linear PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD238780
VERSION BD238780.1 GI:33048550
KEYWORDS JP 2002534056-A/198.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE 1 (bases 1 to 10)
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 198 15-OCT-2002;
GENZYME CORP
COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/198
PD 15-OCT-2002
PR 18-JUN-1999 JP 2000554749
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08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS,SRINIVAS SHANKARA
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Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1019 TTCTGCC 1026
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LOCUS BD238878 10 bp DNA linear PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD238878
VERSION BD238878.1 GI:33048648
KEYWORDS JP 2002534056-A/296.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE 1 (bases 1 to 10)
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 296 15-OCT-2002;
GENZYME CORP
COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/296
PD 15-OCT-2002
PR 18-JUN-1999 JP 2000554749
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PI BRUCE L ROBERTS,SRINIVAS SHANKARA
PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
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DEFINITION Preparation and use of superior vaccines.
ACCESSION BD238880
VERSION BD238880.1 GI:33048650
KEYWORDS JP 2002534056-A/298.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 10)
REFERENCE
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 298 15-OCT-2002;
GENZYME CORP
OS Homo sapiens (human)
PN JP 2002534056-A/298
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
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LOCUS BD239283 10 bp DNA linear PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD239283
VERSION BD239283.1 GI:33049053
KEYWORDS JP 2002534056-A/701.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 10)
REFERENCE
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines

JOURNAL Patent: JP 2002534056-A 701 15-OCT-2002;
GENZYME CORP
COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/701
PD 15-OCT-2002
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PI BRUCE L. ROBERTS, SRINIVAS SHANKARA
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LOCUS BD239952/c 10 bp DNA linear PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD239952
VERSION BD239952.1 GI:33049722
KEYWORDS JP 2002534056-A/1370.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
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Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 10)
REFERENCE
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 1370 15-OCT-2002;
GENZYME CORP
OS Homo sapiens (human)
PN JP 2002534056-A/1370
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
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QY 1018 CTCTGCCC 1025
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RESULT 80
BD240374/c 10 bp DNA linear PAT 17-JUL-2003
LOCUS Preparation and use of superior vaccines.
DEFINITION BD240374
ACCESSION BD240374.1 GI:33050144
VERSION JP 2002534056-A/1792.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 10)
Robert, B.L. and Shankara, S.
Preparation and use of superior vaccines
Patent: JP 2002534056-A 1792 15-OCT-2002;
GENZYME CORP
COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/1792
PD 15-OCT-2002
PR 18-JUN-1998 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
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PC BRUCE L. ROBERTS, SRINIVAS SHANKARA
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QY 1026 CAAAGAGC 1033
Db 8 CAAAGAGC 1

RESULT 81
BD240388 10 bp DNA linear PAT 17-JUL-2003
LOCUS Preparation and use of superior vaccines.
DEFINITION BD240388
ACCESSION BD240388.1 GI:33050158
VERSION JP 2002534056-A/1806.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 10)
Robert, B.L. and Shankara, S.
Preparation and use of superior vaccines
Patent: JP 2002534056-A 1806 15-OCT-2002;
GENZYME CORP
COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/1806
PD 15-OCT-2002
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08-DEC-1998 US 60/111715
PC BRUCE L. ROBERTS, SRINIVAS SHANKARA
PC C12N15/09,C12N15/09,A6IK39/00,A6IP35/00,A6IP37/04,C12N1/15, PC
C12N1/19,
PC C12N15/21,C12N5/10,G0IN33/15,G0IN33/50,G0IN33/53,G0IN33/566, PC
G0IN37/00,
PC C12N15/00,C12N5/00,C12N15/00
CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
FT source 1..10
/organism='Homo sapiens (human)'.
/Location/Qualifiers
1..10
/organism='Homo sapiens'
/mol_type='genomic DNA'
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FEATURES
source
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Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
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Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1018 CTCTGCC 1025
Db 2 CTCTGCC 9

RESULT 82
BD240561

LOCUS BD240561 10 bp DNA linear PAT 17-JUN-2003

DEFINITION Preparation and use of superior vaccines.

ACCESSION BD240561

VERSION BD240561.1 GI:33050331

KEYWORDS JP 2002534056-A/1979.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

AUTHORS Roberts,B.L. and Shankara,S.

TITLE Preparation and use of superior vaccines

JOURNAL Patent: JP 2002534056-A 1979 15-OCT-2002;

COMMENT GENZYME CORP

OS Homo sapiens (human)

PN JP 2002534056-A/1979

PD 15-OCT-2002

PR 18-JUN-1999 JP 2000554749

PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR

19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR

19-JUN-1998 US 60/089997,19-JUN-1998 US 60/090079 PR

19-JUN-1998 US 60/090035,19-JUN-1998 US 60/089993 PR

19-JUN-1998 US 60/089992,19-JUN-1998 US 60/090072 PR

19-JUN-1998 US 60/089878,19-JUN-1998 US 60/089991 PR

19-JUN-1998 US 60/090000,19-JUN-1998 US 60/090048 PR

19-JUN-1998 US 60/089999,19-JUN-1998 US 60/090043 PR

19-JUN-1998 US 60/090042,19-JUN-1998 US 60/090036 PR

19-JUN-1998 US 60/090044,19-JUN-1998 US 60/089844 PR

19-JUN-1998 US 60/090080,19-JUN-1998 US 60/089833 PR

19-JUN-1998 US 60/089994,19-JUN-1998 US 60/090077 PR

19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR

08-DEC-1998 US 60/111715

PI BRUCE L ROBERTS,SRINIVAS SHANKARA

PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC C12N1/19,

PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC G01N37/00,

PC C12N15/00,C12N5/00,C12N15/00

CC Preparation and use of superior vaccines

PH Key Location/Qualifiers

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Location/Qualifiers

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Qy 1029 GAAGGTGG 1036
Db 2 GAAGGTGG 9

RESULT 83
I19168

LOCUS I19168 10 bp DNA linear PAT 07-OCT-1996

DEFINITION Sequence 31 from patent US 5502176.

ACCESSION I19168

VERSION I19168.1 GI:1599523

KEYWORDS Unknown.

SOURCE Unknown.

ORGANISM Unknown.

REFERENCE Unclassified.

AUTHORS Tenen,D.G., Pahl,H.L. and Burn,T.C.

JOURNAL Myeloid cell specific promoter

FEATURES Patent: US 5502176-A 31 26-MAR-1996;

source Location/Qualifiers

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/organism="unknown"

/mol_type="unassigned DNA"

Query Match 40.0%; Score 8; DB 1; Length 10;

Best Local Similarity 100.0%; Pred.No.35;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1018 CTCTGCC 1025
Db 1 CTCTGCC 8

RESULT 84
I19170

LOCUS I19170 10 bp DNA linear PAT 07-OCT-1996

DEFINITION Sequence 33 from patent US 5502176.

ACCESSION I19170

VERSION I19170.1 GI:1599525

KEYWORDS Unknown.

SOURCE Unknown.

ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 10)

AUTHORS Tenen,D.G., Pahl,H.L. and Burn,T.C.

TITLE Myeloid cell specific promoter

JOURNAL Patent: US 5502176-A 33 26-MAR-1996;

FEATURES Location/Qualifiers

1..10

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/mol_type="unassigned DNA"

Query Match 40.0%; Score 8; DB 1; Length 10;

Best Local Similarity 100.0%; Pred.No.35;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1019 TTCTGCC 1026
Db 3 TTCTGCC 10

RESULT 85
AR303345

LOCUS AR303345 10 bp DNA linear PAT 12-JUN-2003

DEFINITION Sequence 70 from patent US 6544736.

ACCESSION AR303345

VERSION AR303345.1 GI:31692121

KEYWORDS Unknown.

SOURCE Unknown.

ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 10)

AUTHORS Shimamoto,A., Furuchi,Y., Shibata,Y., Funaki,H., Ohara,E. and Watanuki,M.

TITLE Method for synthesizing cDNA from mRNA sample

JOURNAL Patent: US 6544736-A 70 08-APR-2003;

FEATURES Location/Qualifiers

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Query Match 40.0%; Score 8; DB 1; Length 10;

Best Local Similarity 100.0%; Pred.No.35;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1019 TTCTGCC 1026
Db 3 TTCTGCC 10

RESULT 86
AX152217/c
LOCUS AX152217 10 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 132 from Patent WO0138577.
ACCESSION AX152217
VERSION AX152217.1 GI:14533868
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
TITLE Human transcriptomes
JOURNAL Patent: WO 0138577-A 132 31-MAY-2001;
The Johns Hopkins University (US)
Location/Qualifiers
1. .10
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/db_xref="taxon:9606"

FEATURES
source

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1026 CAAGAAG 1033
Db 8 CAAGAAG 1

RESULT 87
AX153242
LOCUS AX153242 10 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 1157 from Patent WO0138577.
ACCESSION AX153242
VERSION AX153242.1 GI:14534893
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
TITLE Human transcriptomes
JOURNAL Patent: WO 0138577-A 1157 31-MAY-2001;
The Johns Hopkins University (US)
Location/Qualifiers
1. .10
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FEATURES
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Query Match 40.0%; Score 8; DB 1; Length 10;
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Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1028 AGAAGTG 1035
Db 3 AGAAGTG 10

RESULT 88
AX301610 10 bp DNA linear PAT 30-NOV-2001
LOCUS AX301610
DEFINITION Sequence 324 from Patent WO0185941.
ACCESSION AX301610

VERSION AX301610.1 GI:17382693
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS Versteeg,R. and Caron,H.N.
TITLE MYC targets
JOURNAL Patent: WO 0185941-A 324 15-NOV-2001;
Academisch Ziekenhuis bij de Universiteit van Amsterdam (NL)
Location/Qualifiers
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FEATURES
source

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Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1018 CTCTGCC 1025
Db 2 CTCTGCC 9

Search completed: December 3, 2004, 11:38:34
Job time : 0.001 secs

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126	8.4	42.0	11	1	ADG88256	A. thaliana pathog
127	8.4	42.0	11	1	ADK41823	Human MN gene intr
128	8.4	42.0	11	1	ADQ35643	Human hair-bearing
129	8.4	42.0	11	1	ADQ35785	Human hair-bearing
130	8.4	42.0	11	1	ADQ34760	Human facial skin-
131	8.4	42.0	11	1	ADQ32076	Human facial skin-
132	8.4	42.0	11	1	ADQ34356	Human facial skin-
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135	8.4	42.0	11	1	ADQ32097	Human facial skin-
136	8.4	42.0	8	1	AAT09397	5'-primer used for
137	8.4	42.0	8	1	AAT09546	5'-primer used for
138	8.4	42.0	8	1	AAT09415	3'-primer used for
139	8.4	42.0	8	1	AAT09568	Zinc finger protei
140	8.4	42.0	9	1	ABQ71965	Zinc finger protei
141	8.4	42.0	9	1	ABQ71964	Zinc finger protei
142	8.4	42.0	9	1	ABQ71781	Zinc finger protei
143	8.4	42.0	9	1	ABQ71780	Human VEGF-cargete
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145	8.4	42.0	9	1	ACD19256	Zinc finger target
146	8.4	42.0	9	1	ADA64108	Zinc finger target
147	8.4	42.0	9	1	ADA64291	Zinc finger target
148	8.4	42.0	9	1	ADA64292	Zinc finger target
149	8.4	42.0	9	1	ADA64107	Synthetic zinc fin
150	8.4	42.0	9	1	ADM22709	Synthetic zinc fin
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152	8.4	42.0	9	1	ADM22983	Synthetic zinc fin
153	8.4	42.0	9	1	ADM22800	Synthetic zinc fin
154	8.4	42.0	10	1	AAZ79378	Human dendritic ce
155	8.4	42.0	10	1	AAZ77868	Human dendritic ce
156	8.4	42.0	10	1	AAZ78273	Human dendritic ce
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162	8.4	42.0	10	1	AAZ83134	Human dendritic ce
163	8.4	42.0	10	1	AAZ81919	Metastatic breast
164	8.4	42.0	10	1	AAZ84193	Metastatic breast
165	8.4	42.0	10	1	AAZ82122	Metastatic breast
166	8.4	42.0	10	1	AAZ83647	Metastatic breast
167	8.4	42.0	10	1	AAZ83647	Metastatic breast
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169	8.4	42.0	10	1	AAZ82784	Metastatic breast
170	8.4	42.0	10	1	AAZ85883	Metastatic breast
171	8.4	42.0	10	1	AAZ86535	Metastatic breast
172	8.4	42.0	10	1	AAZ81064	Metastatic breast
173	8.4	42.0	10	1	AAZ83296	Metastatic breast
174	8.4	42.0	10	1	AAZ84897	Metastatic breast
175	8.4	42.0	10	1	AAZ81128	Metastatic breast
176	8.4	42.0	10	1	AAZ83682	Metastatic breast
177	8.4	42.0	10	1	AAZ83851	Metastatic breast
178	8.4	42.0	10	1	AAZ79914	Human dendritic ce
179	8.4	42.0	10	1	AAH64317	Human ubiquitously
					AAH63292	Human colon epithe

180	8	40.0	10	1	AAF69638	Human IL1RA1pha ge
181	8	40.0	10	1	AAF35751	Yeast NORF gene SA
182	8	40.0	10	1	AAF39472	Yeast NORF gene SA
183	8	40.0	10	1	AAF39102	Yeast NORF gene SA
184	8	40.0	10	1	AAF41579	Yeast NORF gene SA
185	8	40.0	10	1	AAF43940	Yeast NORF gene SA
186	8	40.0	10	1	AAF34735	Yeast NORF gene SA
187	8	40.0	10	1	AAF34229	Yeast NORF gene SA
188	8	40.0	10	1	AAF37338	Yeast NORF gene SA
189	8	40.0	10	1	ABK24258	Retinaldehyde-bind
190	8	40.0	10	1	ABK23697	Transcript tag DNA
191	8	40.0	10	1	AA516818	Human apolipoprote
192	8	40.0	10	1	ADC09948	Optical nucleic ac
193	8	40.0	10	1	AD113743	Cytoplasmic tumour
194	8	40.0	10	1	ADK13070	Human glioma endot
195	8	40.0	10	1	ADM57243	A thaliana herbicid

ALIGNMENTS

RESULT 1						
AAL62417/c						
ID	AAL62417	standard;	DNA;	20	BP.	
XX						
AC	AAL62417;					
XX						
DT	06-OCT-2003	(first entry)				
XX						
DE	Human ABC transporter MHC I antisense oligonucleotide, ISIS 206598.					
XX						
KM	ABC transporter; ABCR; major histocompatibility complex; MHC; cytosolic;					
KW	hyperproliferative; autoimmune disorder; antisense gene therapy;					
KW	inflammation; tumour formation; immunosuppressive; antimicrobial; human;					
KW	phosphorothioate backbone; antisense; ss.					
XX						
OS	Homo sapiens.					
OS	Synthetic.					
XX						
FH	Key	Location/Qualifiers				
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FT		/mod_base= OTHER				
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FT		methylcytidines"				
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FT		/tag= b				
FT		/mod_base= OTHER				
FT	modified_base	16..20				
FT		/tag= c				
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FT		/note= "2'methoxyethyl nucleotides"				
XX						
PN	WC0003051309-A2.					
XX						
PD	26-JUN-2003.					
XX						
PF	12-DEC-2002; 2002WC-US040101.					
XX						
PR	17-DEC-2001; 2001US-00024369.					
XX						
PA	(ISIS-) ISIS PHARM INC.					
XX						
PI	Borchers AH, Ward DT, Freier SM;					
XX						
DR	WPI; 2003-577305/54.					
XX						
PT	New antisense compound that hybridizes and inhibits the nucleic acid					
PT	encoding ABC transporter major histocompatibility complex 1, for treating					
PT	diseases or conditions such as a hyperproliferative or autoimmune					
PT	disorder.					
XX						

PS Claim 3; Page 81; 112pp; English.

XX The invention relates to a compound targeted to a nucleic acid molecule
CC encoding ABC transporter (ABCT) major histocompatibility complex (MHC) I
CC where the compound specifically hybridises with the nucleic acid molecule
CC and inhibits expression of ATM or specifically hybridises with at least a
CC portion of an active site on the nucleic acid molecule. The invention is
CC useful for inhibiting the expression of ATM in cells or tissues. The
CC invention is useful for treating an animal with hyperproliferative or
CC autoimmune disorder. The invention is useful for diagnostics,
CC therapeutics, prophylaxis, as research reagents and kits, for
CC distinguishing functions of various members of a biological pathway and
CC in antisense gene therapy. The invention is also useful prophylactically
CC e.g., to prevent or delay infection, inflammation or tumour formation.
CC The present sequence is an antisense oligo targeted to human ABC
CC transporter MHC I DNA. This sequence is used to illustrate the method of
CC the invention

SQ Sequence 20 BP; 4 A; 7 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 100.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1018 CTTCTGCCCAAGAGTGGG 1037
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DB 20 CTTCTGCCCAAGAGTGGG 1

RESULT 2

ABA96458/C
ID ABA96458 standard; DNA; 15 BP.

AC ABA96458;

DT 03-APR-2002 (first entry)

DE Human IL-2 probe SEQ ID NO 2.

XX Human IL-2; IL-4; probe; ss.

XX Homo sapiens.

XX JP2001286285-A.

XX 16-OCT-2001.

XX 28-APR-2000; 2000JP-00130793.

XX 04-FEB-2000; 2000JP-00028117.

XX (BUNSHI BIOHOTONICS KENKYUSHO KK.

XX WPI; 2002-134187/18.

XX Selective separation of live cells expressing a specific gene.

XX Example; Page 9; 65pp; Japanese.

CC The invention relates to selectively separating live cells expressing a
CC specific gene and involves introducing a labelling agent which can label
CC a specific mRNA in the cells of a live cell group expressing the mRNA.
CC The method is used for selectively separating live cells expressing a
CC specific gene. The present sequence is that of a human IL-2 probe

XX Sequence 15 BP; 1 A; 4 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 60.0%; Score 12; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1022 TGCCCAAGAGG 1033
|||||

DB 14 TGCCCAAGAGG 3

RESULT 3

AAF45929
ID AAF45929 standard; DNA; 15 BP.

XX AAF45929;

XX 30-MAR-2001 (first entry)

XX IGFBP2 oligonucleotide #768.

CC Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
CC cytostatic; dermatological; cartiant; virucide; ophthalmological; keloid;
CC skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
CC IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
CC growth factor mediated cell proliferation; ichthyosis; seborrhoea; ruba;
CC keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
CC hyperneovascular condition; hyperplasia; kidney disease;
CC neovascular condition of the retina; ss.

XX Homo sapiens.

XX WO200078341-A1.

XX 28-DEC-2000.

XX 21-JUN-2000; 2000WO-AU000693.

XX 21-JUN-1999; 99US-0140345P.

XX (MURDOCH CHILDRENS RES INST.

XX Wright CJ, Werther GA, Edmondson SR;

XX WPI; 2001-041421/05.

CC Ameliorating the effects of a disorder, e.g. psoriasis, by administering
CC UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
CC inhibits or reduces growth factor mediated cell proliferation and/or
CC inflammation.

XX Example 6; Page 39; 201pp; English.

XX The present invention relates to a method for ameliorating the effects of

CC skin disorders. The method comprises contacting the skin with an

CC antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1

CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of

CC inhibiting or reducing growth factor mediated cell proliferation,

CC inflammation and/or other disorders. The present sequence is an

CC oligonucleotide which can be used to design the antisense

CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,

CC ichthyosis, scleroderma, ruba, pilaris, seborrhoea, keloids, keratosis,
CC neoplasias, hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia

XX Sequence 15 BP; 4 A; 5 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 59.0%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 12;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1023 GCCCAAGAGTGGG 1037
|||||
DB 1 GCCCAAGAGTGGG 15

RESULT 4

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AAF45927
ID AAF45927 standard; DNA; 15 BP.
XX
AC AAF45927;
XX
DT 30-MAR-2001 (first entry)
DE IGFBP2 oligonucleotide #766.
XX
XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX cytoskeletal; dermatological; cardiant; virucide; ophthalmological; keloid;
XX skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
XX IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX growth factor mediated cell proliferation; ichthyosis; seborrhoea; ruba;
XX keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX hyperneovascular condition; hyperplasia; kidney disease;
XX neovascular condition of the retina; ss.
XX
OS Homo sapiens.
XX
PN WO200078341-A1.
XX
PD 28-DEC-2000.
XX
PE 21-JUN-2000; 2000WO-AU000693.
XX
PR 21-JUN-1999; 99US-0140345P.
XX
PA (MURD-) MURDOCH CHILDRENS RES INST.
XX
PI Wraight CJ, Werther GA, Edmondson SR;
XX
DR WPI; 2001-041421/05.
XX
XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
XX inhibits or reduces growth factor mediated cell proliferation and/or
XX inflammation.
XX
PS Example 6; Page 39; 201pp; English.
XX
XX The present invention relates to a method for ameliorating the effects of
XX skin disorders. The method comprises contacting the skin with an
XX antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
XX receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
XX inhibiting or reducing growth factor mediated cell proliferation,
XX inflammation and/or other disorders. The present sequence is an
XX oligonucleotide which can be used to design the antisense
XX oligonucleotides of the present invention (see AAF45151 and AAF45153-
XX F45161). The method is useful for ameliorating the effects of psoriasis,
XX ichthyosis, pityriasis, ruba, pilaris, seborrhoea, keloids, keratosis,
XX neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
XX hyperneovascular condition such as a neovascular condition of the retina,
XX brain or skin, growth factor-mediated malignancies, other sclerotic
XX disease, kidney disease, hyperproliferation of the inside of blood
XX vessels or any other hyperplasia
XX
SQ Sequence 15 BP; 5 A; 4 C; 5 G; 1 T; 0 U; 0 Other;
Query Match 57.0%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 15;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1023 GCCCAAGAGCTG 1035
DB 3 GCCCAAGAGCTG 15
RESULT 5
AAF45928
ID AAF45928 standard; DNA; 15 BP.
XX
AC AAF45928;
```

```
XX
DT 30-MAR-2001 (first entry)
DE IGFBP2 oligonucleotide #767.
XX
XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX cytoskeletal; dermatological; cardiant; virucide; ophthalmological; keloid;
XX skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
XX IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX growth factor mediated cell proliferation; ichthyosis; seborrhoea; ruba;
XX keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX hyperneovascular condition; hyperplasia; kidney disease;
XX neovascular condition of the retina; ss.
XX
OS Homo sapiens.
XX
PN WO200078341-A1.
XX
PD 28-DEC-2000.
XX
PE 21-JUN-2000; 2000WO-AU000693.
XX
PR 21-JUN-1999; 99US-0140345P.
XX
PA (MURD-) MURDOCH CHILDRENS RES INST.
XX
PI Wraight CJ, Werther GA, Edmondson SR;
XX
DR WPI; 2001-041421/05.
XX
XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
XX inhibits or reduces growth factor mediated cell proliferation and/or
XX inflammation.
XX
PS Example 6; Page 39; 201pp; English.
XX
XX The present invention relates to a method for ameliorating the effects of
XX skin disorders. The method comprises contacting the skin with an
XX antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
XX receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
XX inhibiting or reducing growth factor mediated cell proliferation,
XX inflammation and/or other disorders. The present sequence is an
XX oligonucleotide which can be used to design the antisense
XX oligonucleotides of the present invention (see AAF45151 and AAF45153-
XX F45161). The method is useful for ameliorating the effects of psoriasis,
XX ichthyosis, pityriasis, ruba, pilaris, seborrhoea, keloids, keratosis,
XX neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
XX hyperneovascular condition such as a neovascular condition of the retina,
XX brain or skin, growth factor-mediated malignancies, other sclerotic
XX disease, kidney disease, hyperproliferation of the inside of blood
XX vessels or any other hyperplasia
XX
SQ Sequence 15 BP; 5 A; 5 C; 4 G; 1 T; 0 U; 0 Other;
Query Match 57.0%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 15;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1023 GCCCAAGAGCTG 1035
DB 2 GCCCAAGAGCTG 14
RESULT 6
ABC34320
ID ABC34320 standard; DNA; 13 BP.
XX
AC ABC34320;
XX
DT 20-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 34337 for detecting SNP TSC0010965.
```

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB000713.
XX 07-APR-2000; 2000DE-01019173.
XX (EPIC-) EPIDENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 34337; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX Sequence 13 BP; 5 A; 0 C; 7 G; 1 T; 0 U; 0 Other;
SQ
XX Query Match 55.0%; Score 11; DB 1; Length 13;
XX Best Local Similarity 100.0%; Pred. No. 16;
XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1027 AAGAGGTGGG 1037
Db 3 AAGAGGTGGG 13
XX
XX RESULT 7
XX ABC4321/c
XX ID ABC34321 standard; DNA; 13 BP.
XX ABC34321;
XX 20-FEB-2002 (first entry)
XX Oligonucleotide SEQ ID NO 34338 for detecting SNP TSC0010965.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB000713.
XX

PR 07-APR-2000; 2000DE-01019173.
XX (EPIC-) EPIDENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 34338; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX Sequence 13 BP; 1 A; 7 C; 0 G; 5 T; 0 U; 0 Other;
SQ
XX Query Match 55.0%; Score 11; DB 1; Length 13;
XX Best Local Similarity 100.0%; Pred. No. 16;
XX Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1027 AAGAGGTGGG 1037
Db 11 AAGAGGTGGG 1
XX
XX RESULT 8
XX ABC45614
XX ID ABC45614 standard; DNA; 13 BP.
XX ABC45614;
XX 21-FEB-2002 (first entry)
XX Oligonucleotide SEQ ID NO 45631 for detecting SNP TSC0013272.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB000713.
XX 07-APR-2000; 2000DE-01019173.
XX (EPIC-) EPIDENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 45631; 29pp + Sequence Listing; German.
XX

XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences

CC Sequence 13 BP; 5 A; 0 C; 7 G; 1 T; 0 U; 0 Other;

XX Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1027 AAGAAGTGGG 1037
|||
2 AAGAAGTGGG 12

Db

RESULT 9
ABC45615/c
ID ABC45615 standard; DNA; 13 BP.
AC ABC45615;
XX 21-FEB-2002 (first entry)
DT
XX Oligonucleotide SEQ ID NO 45632 for detecting SNP TSC0013272.
DE
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
OS
XX MO200177384-A2.
FN
XX 18-OCT-2001.
PD
XX 06-APR-2001; 2001WO-IB000713.
PE
XX 07-APR-2000; 2000DE-01019173.
PR
XX (EPIG-) EPIGENOMICS AG.
PA
XX Olek A, Piepenbrock C, Berlin K;
PI
XX WPI; 2001-657177/75.
DR
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 45632; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences

XX SQ Sequence 13 BP; 1 A; 7 C; 0 G; 5 T; 0 U; 0 Other;

XX Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1027 AAGAAGTGGG 1037
|||
12 AAGAAGTGGG 2

Db

RESULT 10
AA281481
ID AA281481 standard; DNA; 10 BP.
XX
AC AA281481;
XX 07-APR-2000 (first entry)
DT
XX Metastatic breast tumour cell upregulated transcript tag #715.
DE
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
XX Homo sapiens.
OS
XX WO9965928-A2.
FN
XX 23-DEC-1999.
PD
XX 18-JUN-1999; 99WO-US013647.
PF
XX 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089979P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
XX (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
XX Roberts BL, Shankara S;
PI
XX WPI; 2000-106079/09.
DR
XX Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
XX Claim 1, Page 77; 219pp; English.
XX
XX AA280767 to AA283941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
CC to AA286677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector

CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy

XX Sequence 10 BP; 4 A; 2 C; 3 G; 1 T; 0 U; 0 Other;

Query Match 50.0%; Score 10; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 21;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1025 CCAGAAGT 1034

DB 1 CCAGAAGT 10

RESULT 11

ABV70040/C

ID ABV70040 standard; cDNA; 11 BP.

AC ABV70040;

DT 21-OCT-2002 (first entry)

DE Human skin EST 7826.

XX Human; skin; dermatological; vulnery; antipsoriatic; anti-seborrheic;

KM immunosuppressive; anti-inflammatory; cytostatic; SAGE; neurodermatitis;

KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX Homo sapiens.

OS WO200253774-A2.

PN 11-JUL-2002.

PD 20-DEC-2001; 2001WO-EP015179.

PR 03-JAN-2001; 2001DE-01000127.

XX (HENK) HENKEL KGAA.

PI Petersohn D, Conradt M, Hofmann K;

XX WPI; 2002-590638/63.

DR In vitro identification of skin-expressed genes, useful for determining

PT homeostasis and identifying cosmetic or pharmaceutical agents against

XX e.g. skin cancer.

PS Claim 24; Page 249; 1345pp; German.

XX The invention relates to in vitro identification (MI) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)

CC so as to identify skin-expressed genes and quantify their expression.

CC (MI) is useful for identifying genes involved in skin homeostasis; to

CC determine skin homeostasis and to test agent (A) that maintains or

CC promotes skin homeostasis or that can be used for treating skin

CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;

CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;

CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the

CC skin. The present sequence is that of a human expressed sequence tag

CC (EST) of the invention

XX Sequence 11 BP; 0 A; 3 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 50.0%; Score 10; DB 1; Length 11;

Best Local Similarity 100.0%; Pred. No. 24;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1024 CCAGAAGG 1033

DB 10 CCAGAAGG 1

RESULT 12

ABV62619/C

ID ABV62619 standard; cDNA; 11 BP.

XX ABV62619;

DT 21-OCT-2002 (first entry)

DE Human skin EST 405.

XX Human; skin; dermatological; vulnery; antipsoriatic; anti-seborrheic;

KM immunosuppressive; anti-inflammatory; cytostatic; SAGE; neurodermatitis;

KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX Homo sapiens.

OS WO200253774-A2.

PN 11-JUL-2002.

PD 20-DEC-2001; 2001WO-EP015179.

PR 03-JAN-2001; 2001DE-01000127.

XX (HENK) HENKEL KGAA.

PI Petersohn D, Conradt M, Hofmann K;

XX WPI; 2002-590638/63.

DR In vitro identification of skin-expressed genes, useful for determining

PT homeostasis and identifying cosmetic or pharmaceutical agents against

XX e.g. skin cancer.

PS Disclosure; Page 37; 1345pp; German.

XX The invention relates to in vitro identification (MI) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)

CC so as to identify skin-expressed genes and quantify their expression.

CC (MI) is useful for identifying genes involved in skin homeostasis; to

CC determine skin homeostasis and to test agent (A) that maintains or

CC promotes skin homeostasis or that can be used for treating skin

CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;

CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;

CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the

CC skin. The present sequence is that of a human expressed sequence tag

CC (EST) of the invention

XX Sequence 11 BP; 0 A; 3 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 50.0%; Score 10; DB 1; Length 11;

Best Local Similarity 100.0%; Pred. No. 24;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1024 CCAGAAGG 1033

DB 10 CCAGAAGG 1

RESULT 13

ABH76170/C

ID ABH76170 standard; DNA; 12 BP.

AC ABH76170;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 276163 for detecting SNP TSC0004105.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

```

KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 276163; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 12 BP; 2 A; 6 C; 0 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 50.0%; Score 10; DB 1; Length 12;
XX Best Local Similarity 100.0%; Pred. No. 26;
XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1027 AAGAAGGTGG 1036
XX
XX Db 10 AAGAAGGTGG 1
XX
XX RESULT 14
XX ABI71877/c
XX ID ABI71877 standard; DNA; 12 BP.
XX
XX AC ABI71877;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 371850 for detecting SNP TSC0059032.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX OS
XX PN WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX

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XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 371850; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989, and ABI00010-ABI82073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 12 BP; 2 A; 7 C; 0 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 50.0%; Score 10; DB 1; Length 12;
XX Best Local Similarity 100.0%; Pred. No. 26;
XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1028 AGAAGTGGG 1037
XX
XX Db 11 AGAAGTGGG 2
XX
XX RESULT 15
XX AAA54180
XX ID AAA54180 standard; cDNA; 13 BP.
XX
XX AC AAA54180;
XX
XX 08-FEB-2001 (first entry)
XX
XX 5' exon-intron junction of exon 3 of BSMAP.
XX
XX Brain specific membrane anchored protein; BSMAP; dopamine; GABA;
XX receptor; agonist; antagonist; central nervous system; CNS;
XX brain disease; chromosome 19; CUF-T; depression; dyslexia; dystonia;
XX eating disorder; epilepsy; migraine; headache; panic disorder;
XX schizophrenia; obsessive disorder; compulsive disorder;
XX amyotrophic lateral sclerosis; multiple sclerosis; Alzheimer's disease;
XX brain tumour; Huntington's disease; Parkinson's disease; stroke; human;
XX exon; intron; ss.
XX
XX Homo sapiens.
XX
XX OS
XX PN WO200055317-A1.
XX
XX 21-SEP-2000.
XX
XX 16-MAR-2000; 2000MO-IB000360.
XX
XX 16-MAR-1999; 99EP-00400636.
XX
XX (FABR ) FABRE MEDICAMENT SA PIERRE.
XX
XX Elson G, Bonnefoy J, Gauchat J;
XX
XX WPI; 2000-638200/61.
XX
XX Novel nucleic acid encoding Brain-Specific Membrane Anchored Protein
XX useful for treating central nervous system associated disorders and
XX diseases.
XX

```

XX Disclosure: Page 13; 45pp; English.

PS

XX Several receptors (dopamine receptors, the 5-HT family of receptors and

CC GABA receptors) have been shown to be useful targets by agonist and

CC antagonist compounds to treat and/or prevent CNS disorders. Brain

CC receptors in general are attractive candidates for finding new therapies

CC for brain diseases. Human chromosome 19 is a short chromosome with a

CC relatively high GC content which has been found to be involved in CNS

CC functions. The gene for type I cytokine receptor homologue C19-1 was

CC recently localised to chromosome 19. Unexpectedly seven other exons

CC coding in the reverse orientation located adjacent to the C19-1 exons

CC have also been found. This new gene was designated brain-specific

CC membrane anchored protein (BSMAP). Antagonistic compounds directed

CC against BSMAP are useful for preparing medicaments for treating and/or

CC preventing central nervous system disorders such as depression, dyslexia,

CC dystonia, eating disorders, epilepsy, migraine, headache, panic disorder,

CC schizophrenia, obsessive and compulsive disorders, amyotrophic lateral

CC sclerosis, multiple sclerosis, Alzheimer's disease, brain tumors,

CC Huntington's disease, Parkinson's disease and stroke

XX

SQ Sequence 13 BP; 3 A; 2 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 50.0%; Score 10; DB 1; Length 13;

Best Local Similarity 100.0%; Pred. No. 28;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0

QY 1028 AGAAGGTGGG 1037
|||||||

Db 1 AGAAGGTGGG 10

RESULT 16

ABC48640/C

ID ABC48640 standard; DNA; 13 BP.

XX

AC ABC48640;

XX

DT 21-FEB-2002 (first entry)

XX

DE Oligonucleotide SEQ ID NO 48657 for detecting SNP TSC0013839.

XX

SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX

OS Homo sapiens.

XX

XX WO200177384-A2.

FN

XX 18-OCT-2001.

XX

PD 06-APR-2001; 2001MO-IB000713.

PF

XX 07-APR-2000; 2000DE-01019173.

FR

XX (EPIG-) EPIGENOMICS AG.

PA

XX Olek A, Piepenbrock C, Berlin K;

PI

XX WPI; 2001-657177/75.

DR

XX Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single-nucleotide polymorphisms and cytosine

PT methylation status.

XX

PS Claim 1; SEQ ID NO 48657; 29pp + Sequence Listing; German.

XX

XX This invention describes novel oligonucleotide primers or peptide nucleic

CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

CC and cytosine methylation status in chemically pretreated genomic DNA. The

CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a

CC range of diseases including immune system, gastrointestinal, respiratory,

CC	central nervous system, cardiovascular and metabolic disorders. The
CC	oligonucleotides are also used for detecting cell type differentiation. ABC000010
CC	-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC	represent the oligomers described in the invention. NOTE: The sequence
CC	data for this patent did not form part of the printed specification, but
CC	was obtained in electronic format from WIPO at
CC	ftp.wipo.int/pub/published_pct_sequences
XX	
XX	Sequence 13 BP; 3 A; 0 C; 5 G; 5 T; 0 U; 0 Other;
SO	
Query Match	49.0%; Score 9.8; DB 1; Length 13;
Best Local Similarity	84.6%; Pred. No. 32;
Matches 11; Conservative	0; Mismatches 2; Indels 0; Gaps 0
OY	1018 CTTCTGCCCCAAGA 1030
DB	13 CTTCTACCCCAAAA 1
RESULT 17	
ABC48641	
ID	ABC48641 standard; DNA; 13 BP.
XX	
AC	ABC48641;
XX	
DT	21-FEB-2002 (first entry)
XX	
DE	Oligonucleotide SEQ ID NO 48658 for detecting SNP TSC0013839.
XX	
XX	
XX	SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM	central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS	
XX	Homo sapiens.
PN	
XX	WO200177384-A2.
PD	
XX	18-OCT-2001.
XX	
PF	06-APR-2001; 2001WO-IB000713.
XX	
PR	07-APR-2000; 2000DE-01019173.
XX	
PA	(EPIG-) EPIGENOMICS AG.
XX	
PI	Olek A, Piepenbrock C, Berlin K;
XX	
DR	WPI; 2001-657177/75.
XX	
PT	Set of oligonucleotides, useful for diagnosis and cell typing, is
PT	designed to detect single-nucleotide polymorphisms and cytosine
PT	methylation status.
XX	
BS	Claim 1; SEQ ID NO 48658; 29pp + Sequence Listing; German.
XX	
CC	This invention describes novel oligonucleotide primers or peptide nucleic
CC	acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC	and cytosine methylation status in chemically pretreated genomic DNA. The
CC	oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC	range of diseases including immune system, gastrointestinal, respiratory,
CC	central nervous system, cardiovascular and metabolic disorders. The
CC	oligomers are also used for detecting cell type differentiation. ABC00010
CC	-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC	represent the oligomers described in the invention. NOTE: The sequence
CC	data for this patent did not form part of the printed specification, but
CC	was obtained in electronic format from WIPO at
CC	ftp.wipo.int/pub/published_pct_sequences
XX	
XX	
SO	Sequence 13 BP; 5 A; 5 C; 0 G; 3 T; 0 U; 0 Other;
Query Match	49.0%; Score 9.8; DB 1; Length 13;
Best Local Similarity	84.6%; Pred. No. 32;
Matches 11; Conservative	0; Mismatches 2; Indels 0; Gaps 0

OY 1018 CTTGCGCCCAAGA 1030
||| ||| ||| ||| |||
Db 1 CTTCTACCCCAAA 13

RESULT 18
ABF26997 standard; DNA; 13 BP.
AC ABF26997;
DT 21-FEB-2002 (first entry)
XX Oligonucleotide SEQ ID NO 126994 for detecting SNP TSC0031788.
DE
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIDENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 126994; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 4 A; 6 C; 0 G; 3 T; 0 U; 0 Other;

Query Match 49.0%; Score 9.8; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 32;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1019 TTCTGCCCAAGAA 1031
||| ||| ||| ||| |||
Db 1 TTCTCCCAACAA 13

RESULT 19
ABF26996/c
ID ABF26996 standard; DNA; 13 BP.
AC ABF26996;
XX
XX 21-FEB-2002 (first entry)
DT

XX Oligonucleotide SEQ ID NO 126993 for detecting SNP TSC0031788.
DE
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIDENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 126993; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 3 A; 0 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 49.0%; Score 9.8; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 32;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1019 TTCTGCCCAAGAA 1031
||| ||| ||| ||| |||
Db 13 TTCTCCCAACAA 1

RESULT 20
ABK99486
ID ABR99486 standard; DNA; 11 BP.
AC ABR99486;
XX
XX 21-OCT-2002 (first entry)
XX
XX Human CYP3A5 gene polymorphic reference DNA sequence #56.
DE
XX Human; CYP3A5; polymorphism; cancer; cardiovascular disease; diabetes;
KM AIDS; African American; forensic marker; pharmacological; cytostatic;
KW antidiabetic; anti-HIV; gene therapy; ds.
XX
XX Homo sapiens.
XX
XX WO200253775-A2.
XX
XX 11-JUL-2002.
XX

PF 21-DEC-2001; 2001WO-EP015290.
XX
PR 28-DEC-2000; 2000EP-00128637.
PR 28-DEC-2000; 2000US-0258684P.
PR 29-DEC-2000; 2000US-0258952P.
PR 16-JAN-2001; 2001EP-00100172.
PR 18-JAN-2001; 2001US-0262859P.
PR 16-AUG-2001; 2001EP-00118884.
PR 16-AUG-2001; 2001US-0312825P.
XX
PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
XX
PI Wojnowski L, Haberl M, Huestert E;
XX
DR WPI; 2002-583628/62.
XX
XX
PT Novel CYP3A5 polynucleotide useful for diagnosis and treatment of cancer,
PT cardiovascular diseases, diabetes and AIDS, and for identifying
PT polymorphisms.
XX
PS Example 2; Page 53; 138pp; English.
XX
CC The present invention relates to a new CYP3A5 polynucleotide encoding a
CC polypeptide, where the polynucleotide is capable of hybridizing to a
CC CYP3A5 gene. The invention is useful in an in vitro method for
CC identifying a polymorphism. The invention is also useful for useful for
CC diagnosing a disorder related to the presence of a molecular variant of a
CC CYP3A5 or susceptibility to such a disorder, where the disorder is
CC cancer, or diseases including cardiovascular diseases, diabetes and AIDS.
CC The invention can further be used for the preparation of a diagnostic
CC composition for diagnosing a disease in a subject having a genome
CC comprising a variant allele of the CYP3A5 gene, where the subject is an
CC African American. The molecules of the invention are as forensic markers
CC and in pharmacological studies. The present nucleic acid sequence
CC represents a human CYP3A5 gene polymorphism reference DNA sequence, as
CC described in the invention
XX
SQ Sequence 11 BP; 4 A; 3 C; 2 G; 2 T; 0 U; 0 Other;
Query Match 47.0%; Score 9.4; DB 1; Length 11;
Best Local Similarity 90.9%; Pred. No. 33;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1020 TCTGCCCAAGA 1030
DB 1 TCTGCCCAAGA 11
RESULT 21
ADQ32668
ID ADQ32668 standard; DNA; 11 BP.
XX
AC ADQ32668;
XX
DT 23-SEP-2004 (first entry)
XX
DE Human facial skin-associated DNA fragment SEQ ID NO 758.
XX
XX facial skin; human; serial analysis of gene expression; SAGE;
KM homeostasis; biochip; cosmetic; pharmaceutical; de.
XX
OS Homo sapiens.
XX
PN DE10260928-A1.
XX
PD 08-JUL-2004.
XX
PE 20-DEC-2002; 2002DE-01060928.
XX
PR 20-DEC-2002; 2002DE-01060928.
XX
PA (HENK) HENKEL KGAA.
XX

PI Petersohn D, Schlotmann K, Gaessenmeter T, Holtkoetter O;
PI Conradt M, Hofmann K;
XX
DR WPI; 2004-518855/50.
XX
XX
PT In vitro identification of genes important for facial skin, useful for
PT assessing homeostasis and in screening for pharmaceutical or cosmetic
PT agents, based on differential expression analysis.
XX
PS Claim 5; SEQ ID NO 758; 577pp; German.
XX
XX This invention describes a novel in vitro method for identifying genes
XX that are significant for facial skin in humans. The method comprises
XX recovering from facial skin, a first mixture of genetically expressed
XX (transcribed and optionally translated) factors (i.e. proteins, mRNA or
XX their fragments), recovering a second, similar mixture from some other
XX human tissue, preferably skin from a protected area, especially from the
XX breast and subjecting the mixtures to serial analysis of gene expression
XX (SAGE) to identify those genes for which expression is markedly different
XX between facial skin and the other tissue. The invention also describes an
XX in vitro method for determining homeostasis of human facial skin; a test
XX kit which comprises a solid support (flexible or rigid) on which are
XX immobilised probes that bind specifically to the factors of interest and
XX a biochip for determining homeostasis of human facial skin. The products
XX of the invention are also used in a method which determines activity of
XX cosmetic and pharmaceutical agents for use against disorders or
XX disturbances of the homeostasis of human skin and a screening method for
XX identifying cosmetic and pharmaceutical agents. The method allows
XX identification of as many as possible of the genes important for facial
XX skin and thus of a very wide range of potential therapeutic and cosmetic
XX agents. ADQ31911-ADQ3511 represent human DNA Tag fragments used to
CC identify the facial skin-associated genes described in the invention.
XX
SQ Sequence 11 BP; 3 A; 4 C; 2 G; 2 T; 0 U; 0 Other;
Query Match 47.0%; Score 9.4; DB 1; Length 11;
Best Local Similarity 90.9%; Pred. No. 33;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1021 CTGCCCAAGA 1031
DB 1 CTGCCCAAGA 11
RESULT 22
AB113302/C
ID AB113302 standard; DNA; 12 BP.
XX
AC AB113302;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 313275 for detecting SNP TSC0025624.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; aa;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO000177384-A2.
XX
PD 18-OCT-2001.
XX
PE 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
PI
XX WPI; 2001-657177/75.
DR

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 313275; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 3 A; 6 C; 0 G; 3 T; 0 U; 0 Other;
XX
Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 37;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Oy 1027 AAGAGGTGGG 1037
Db 11 ATGAGGTGGG 1
XX
RESULT 23
AB147015
ID AB147015 standard; DNA; 12 BP.
AC AB147015;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 346988 for detecting SNP TSC0044863.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 346988; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 3 A; 0 C; 8 G; 1 T; 0 U; 0 Other;
XX
Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 37;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 4 A; 0 C; 7 G; 1 T; 0 U; 0 Other;
XX
Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 37;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Oy 1027 AAGAGGTGGG 1037
Db 2 AGGAGGTGGG 12
XX
RESULT 24
AB145565
ID AB145565 standard; DNA; 12 BP.
AC AB145565;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 345538 for detecting SNP TSC0044079.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 345538; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 3 A; 0 C; 8 G; 1 T; 0 U; 0 Other;
XX
Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 37;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1027 AAGAGGTGGG 1037
XX |||||
DB 2 AAGGAGGTGGG 12

RESULT 25
ABI69022
ID ABI69022 standard; DNA; 12 BP.
XX
AC ABI69022;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 368995 for detecting SNP TSC0057391.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; 89;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 368995; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 3 A; 0 C; 7 G; 2 T; 0 U; 0 Other;

Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 37;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1027 AAGAGGTGGG 1037
XX |||||
DB 2 AAGTAgGTGGG 12

RESULT 26
ABH91427/c
ID ABH91427 standard; DNA; 12 BP.
XX
AC ABH91427;
XX
DT 22-FEB-2002 (first entry)
XX

DE Oligonucleotide primer SEQ ID NO 291420 for detecting SNP TSC0014786.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; 89;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 291420; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 1 A; 5 C; 0 G; 6 T; 0 U; 0 Other;

Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 37;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1027 AAGAGGTGGG 1037
XX |||||
DB 11 AAGAGGTAGG 1

RESULT 27
ABI61189
ID ABI61189 standard; DNA; 12 BP.
XX
AC ABI61189;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 361162 for detecting SNP TSC0052480.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; 89;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX

XX 07-APR-2000; 2000DE-01019173.
XX (EPiG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 361162; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX Sequence 12 BP; 4 A; 5 C; 0 G; 3 T; 0 U; 0 Other;
SQ
Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 37;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1018 CTTCTGCCCA 1028
DB 2 CTTCTACCCA 12
RESULT 28
ABH98731/C
ID ABH98731 standard; DNA; 12 BP.
XX ABH98731;
XX 22-FEB-2002 (first entry)
XX Oligonucleotide primer SEQ ID NO 298724 for detecting SNP TSC0018250.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB000713.
XX 07-APR-2000; 2000DE-01019173.
XX (EPiG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.

PS Claim 1; SEQ ID NO 298724; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX Sequence 12 BP; 2 A; 7 C; 0 G; 3 T; 0 U; 0 Other;
SQ
Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 37;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1027 AGGAGGTGG 1037
DB 11 AGGAGGTGG 1
RESULT 29
ABH85586
ID ABH85586 standard; DNA; 12 BP.
XX ABH85586;
XX 22-FEB-2002 (first entry)
XX Oligonucleotide primer SEQ ID NO 285579 for detecting SNP TSC0012359.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB000713.
XX 07-APR-2000; 2000DE-01019173.
XX (EPiG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 285579; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at

CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 5 A; 0 C; 6 G; 1 T; 0 U; 0 Other;
Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 37;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1027 AAGAGGTGGG 1037
DB 2 AAGAGGAGGG 12
RESULT 30
ADP78633
ID ADF78633 standard; DNA; 12 BP.
XX
AC ADF78633;
XX
DT 26-FEB-2004 (first entry)
XX
DE Chromosomal abnormality detection-related PCR primer 214.
XX
XX chromosomal abnormality; maternal locus; genetic disorder; foetus;
KM mutation; translocation; transversion; monosomy; trisomy; trisomy 21;
KM chromosome 21; Down's Syndrome; aneuploidies; chromosome deletion;
KM chromosome addition; chromosome amplification; chromosome translocation;
KM chromosome rearrangement; single nucleotide polymorphism detection;
KM SNP detection; pregnant female; PCR; primer; ss.
XX
OS Homo sapiens.
XX
PN WO2003074723-A2.
XX
PD 12-SEP-2003.
XX
PF 28-FEB-2003; 2003WO-US06198.
XX
PR 01-MAR-2002; 2002US-0360232P.
PR 11-MAR-2002; 2002US-00093618.
PR 08-MAY-2002; 2002US-0378354P.
XX
PA (DHALLAN/) DHALLAN R.
XX
PI Dhallan R;
XX
DR WPI; 2003-845073/78.
XX
PT Detection of chromosomal abnormalities e.g. Down's Syndrome, non-
PT invasively in a fetus, comprises forming a ratio of amounts of alleles at
PT a locus of interest and a different heterozygous locus.
XX
PS Example 11; Page 234; 164pp; English.
XX
CC This invention relates to a novel method of detecting chromosomal
CC abnormalities by determining the sequence of alleles of a locus of
CC interest from template DNA, determining which alleles are present and
CC comparing to amounts of alleles at a different, selected heterozygous
CC locus (for example on another chromosome or a maternal locus); relative
CC amounts are expressed as a ratio indicating presence or absence of the
CC abnormality. The method is useful for the detection of genetic disorders,
CC especially in a foetus, including chromosomal abnormalities and
CC mutations, for example translocations, transversions, monosomies,
CC trisomies (for example trisomy 21 in which an additional copy of
CC chromosome 21 results in Down's Syndrome) and other aneuploidies,
CC deletions, additions, amplifications, translocations and rearrangements.
CC It can be used to detect any alterations in a gene sequence, especially
CC single nucleotide polymorphisms (SNPs), and may be used to detect
CC numerous abnormalities simultaneously, for example if several SNPs are
CC associated with a particular disease. The method provides a rapid, non-
CC invasive method for determining the sequence of DNA from a foetus using a
CC sample from a pregnant female, for example to detect genetic disorders as
CC above or to determine if a foetus is a carrier of a disease or

CC predisposed to a disease.
XX
SQ Sequence 12 BP; 3 A; 5 C; 2 G; 2 T; 0 U; 0 Other;
Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 37;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1018 CTTGTGCCCA 1028
DB 2 CTTGTGCCCA 12
RESULT 31
AAZ77982
ID AAZ77982 standard; DNA; 10 BP.
XX
AC AAZ77982;
XX
DT 10-APR-2000 (first entry)
XX
DE Human dendritic cell SAGE tag, SEQ ID NO:410.
XX
XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;
KM APC; monocyte-derived dendritic cell; differential gene expression;
KM immunostimulatory cofactor; costimulatory factor; CTL;
KM cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
XX
OS Homo sapiens.
XX
PN WO965924-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013800.
XX
PR 19-JUN-1998; 98US-0089833P.
PR 19-JUN-1998; 98US-0089844P.
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089878P.
PR 19-JUN-1998; 98US-0089911P.
PR 19-JUN-1998; 98US-0089922P.
PR 19-JUN-1998; 98US-0089933P.
PR 19-JUN-1998; 98US-0089944P.
PR 19-JUN-1998; 98US-0089977P.
PR 19-JUN-1998; 98US-0089999P.
PR 19-JUN-1998; 98US-0090000P.
PR 19-JUN-1998; 98US-0090035P.
PR 19-JUN-1998; 98US-0090036P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
PR 19-JUN-1998; 98US-0090042P.
PR 19-JUN-1998; 98US-0090043P.
PR 19-JUN-1998; 98US-0090044P.
PR 19-JUN-1998; 98US-0090045P.
PR 19-JUN-1998; 98US-0090047P.
PR 19-JUN-1998; 98US-0090048P.
PR 19-JUN-1998; 98US-0090072P.
PR 19-JUN-1998; 98US-0090076P.
PR 19-JUN-1998; 98US-0090077P.
PR 19-JUN-1998; 98US-0090078P.
PR 19-JUN-1998; 98US-0090079P.
PR 19-JUN-1998; 98US-0090080P.
PR 08-DEC-1998; 98US-0111715P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE) ROBERTS B. L.
PA (SHAN) SHANKARA S.
XX
XX Roberts BL, Shankara S;
PI
XX WPI; 2000-106077/09.
DR

XX Isolated polynucleotides differentially expressed in antigen-presenting
PT cells, useful in gene vaccines against cancer.
PT

PS Claim 1; Page 76; 130pp; English.

Sequence 10 BP; 2 A; 0 C; 7 G; 1 T; 0 U; 0 Other;

Sequence 10 BP; 2 A; 0 C; 7 G; 1 T; 0 U; 0 Other;

Query Match	45.0%	Score 9;	DB 1;	Length 10;
Best Local Similarity	100.0%	Pred. No. 38;		
Matches 9; Conservative	0;	Mismatches	0;	Indels 0;
				Gaps 0;

QY	1029	GAAGTGGG	1037
Db	1	GAAGTGGG	9

RESULT 32
AAZ78502
ID AAZ78502 standard; DNA; 10 BP.

AC AAZ78502;

DT 10-APR-2000 (first entry)

DE Human dendritic cell SAGE tag, SEQ ID NO:930.

KM SAGE tag, serial analysis of gene expression; antigen-presenting cell, APC; monocyte-derived dendritic cell; differential gene expression; immunostimulatory cofactor; costimulatory factor; CTL; cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss

OS Homo sapiens.

PN WO9965924-A2.

PD 23-DEC-1999

PF 18-JUN-1999; 99WO-US013800.

PR	13-JUN-1998	9.8US-0083833.P
PR	13-JUN-1998	9.8US-0083844.P
PR	13-JUN-1998	9.8US-0083853.P
PR	13-JUN-1998	9.8US-0083878.P
PR	13-JUN-1998	9.8US-0083911.P
PR	13-JUN-1998	9.8US-0083922.P
PR	13-JUN-1998	9.8US-0083933.P
PR	13-JUN-1998	9.8US-0083944.P
PR	13-JUN-1998	9.8US-0083979.P
PR	13-JUN-1998	9.8US-0083992.P
PR	13-JUN-1998	9.8US-0090002.P
PR	13-JUN-1998	9.8US-0090035.P
PR	13-JUN-1998	9.8US-0090036.P
PR	13-JUN-1998	9.8US-0090039.P
PR	13-JUN-1998	9.8US-0090041.P
PR	13-JUN-1998	9.8US-0090042.P
PR	13-JUN-1998	9.8US-0090043.P
PR	13-JUN-1998	9.8US-0090044.P
PR	13-JUN-1998	9.8US-0090045.P
PR	13-JUN-1998	9.8US-0090047.P
PR	13-JUN-1998	9.8US-0090048.P
PR	13-JUN-1998	9.8US-0090072.P
PR	13-JUN-1998	9.8US-0090076.P
PR	13-JUN-1998	9.8US-0090077.P
PR	13-JUN-1998	9.8US-0090078.P
PR	13-JUN-1998	9.8US-0090079.P
PR	13-JUN-1998	9.8US-0090080.P
PR	08-DEC-1998	9.8US-011715P.

PA (GENZ) GENZYME CORP
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.

PI Roberts BL, Shankara S,

DR WPI; 2000-106077/09.

Isolated polynucleotides differentially expressed in antigen-presenting cells, useful in gene vaccines against cancer.

PS Claim 1; Page 92; 130pp; English.

Sequence AAZ77573-279709 represent SAGE (serial analysis of gene expression) tags used to identify mRNA transcripts encoding immunostimulatory cofactor proteins which are preferentially or differentially expressed in monocyte-derived dendritic cells compared with monocytes. Some of the transcripts correspond to known genes or ESTs (expressed sequence tags) which were previously unknown to be preferentially or differentially expressed in dendritic cells, while other transcripts correspond to novel genes. Antigen-presenting cell (APC)-associated costimulatory factors play an important role in the activation of the cytotoxic immune response, particularly against tumour cells. Tumour antigen presentation via the MHC (major histocompatibility complex) and subsequent recognition by T-cell receptors is alone insufficient to activate a robust cytotoxic immune response that can lyse the tumour cells, immunostimulatory cofactors also being required for efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid sequences identified using the SAGE tags have several potential uses. They may be used in vaccines to induce an immune response, particularly against a tumour antigen; to modulate the genotype of an APC; to screen for agents that modulate expression of differentially expressed genes in an APC; and as hybridisation probes/amplification primers for the diagnosis, prognosis and monitoring of diseases related to abnormal expression of these genes. Detection of the dendritic cell differentially expressed genes, or of their encoded proteins, can be used to identify cells as belonging to the monocyte lineage. Cells containing these genes can be used in active immunotherapy (or to stimulate production of a population of antigen-specific effector cells) and vectors containing them are used in gene therapy. Co-administration of tumour antigens and APC-associated costimulatory factors ensures adequate antigen presentation to endogenous APCs and upregulates the APCs for the presentation of co-stimulatory signals, migration to T cell-rich sites,

CC secretion of T cell growth factors and secretion of chemokines for
 CC recruitment of immune effector cells
 XX
 SQ Sequence 10 BP; 2 A; 4 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 38;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1019 TTCTGCCCA 1027
 Db 2 TTCTGCCCA 10

RESULT 33
 AA278803
 ID AA278803 standard; DNA; 10 BP.
 AC AA278803;
 XX
 DT 10-APR-2000 (first entry)
 XX
 DE Human dendritic cell SAGE tag; SEQ ID NO:1231.
 XX
 KM SAGE tag; serial analysis of gene expression; antigen-presenting cell;
 KM APC; monocyte-derived dendritic cell; differential gene expression;
 KM immunostimulatory cofactor; costimulatory factor; CTX;
 KM cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
 XX
 OS Homo sapiens.
 XX
 PN MO9965924-A2.
 XX
 PD 23-DEC-1999.
 XX
 PF 18-JUN-1999; 99WO-US013800.
 XX
 PR 19-JUN-1998; 98US-0089843P.
 PR 19-JUN-1998; 98US-0089844P.
 PR 19-JUN-1998; 98US-0089853P.
 PR 19-JUN-1998; 98US-0089878P.
 PR 19-JUN-1998; 98US-0089991P.
 PR 19-JUN-1998; 98US-0089992P.
 PR 19-JUN-1998; 98US-0089993P.
 PR 19-JUN-1998; 98US-0089994P.
 PR 19-JUN-1998; 98US-0089997P.
 PR 19-JUN-1998; 98US-0090003P.
 PR 19-JUN-1998; 98US-0090004P.
 PR 19-JUN-1998; 98US-0090036P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090041P.
 PR 19-JUN-1998; 98US-0090042P.
 PR 19-JUN-1998; 98US-0090043P.
 PR 19-JUN-1998; 98US-0090044P.
 PR 19-JUN-1998; 98US-0090045P.
 PR 19-JUN-1998; 98US-0090047P.
 PR 19-JUN-1998; 98US-0090048P.
 PR 19-JUN-1998; 98US-0090072P.
 PR 19-JUN-1998; 98US-0090076P.
 PR 19-JUN-1998; 98US-0090077P.
 PR 19-JUN-1998; 98US-0090078P.
 PR 19-JUN-1998; 98US-0090079P.
 PR 19-JUN-1998; 98US-0090080P.
 PR 08-DEC-1998; 98US-0111715P.
 XX
 PA (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.
 XX
 PI Roberts BL, Shankara S;
 XX

DR WPI; 2000-106077/09.
 XX
 PT Isolated polynucleotides differentially expressed in antigen-presenting
 cells; useful in gene vaccines against cancer.
 XX
 PS Claim 1; Page 100; 130pp; English.
 XX
 CC Sequences AA277573-279709 represent SAGE (serial analysis of gene
 CC expression) tags used to identify mRNA transcripts encoding
 CC immunostimulatory cofactor proteins which are preferentially or
 CC differentially expressed in monocyte-derived dendritic cells compared
 CC with monocytes. Some of the transcripts correspond to known genes or ESTs
 CC (expressed sequence tags) which were previously unknown to be
 CC preferentially or differentially expressed in dendritic cells, while
 CC other transcripts correspond to novel genes. Antigen-presenting cell
 CC (APC)-associated costimulatory factors play an important role in the
 CC activation of the cytotoxic immune response, particularly against tumour
 CC cells. Tumour antigen presentation via the MHC (major histocompatibility
 CC complex) and subsequent recognition by T-cell receptors is alone
 CC insufficient to activate a robust cytotoxic immune response that can lyse
 CC the tumour cells, immunostimulatory cofactors also being required for
 CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
 CC sequences identified using the SAGE tags have several potential uses.
 CC They may be used in vaccines to induce an immune response, particularly
 CC against a tumour antigen; to modulate the genotype of an APC; to screen
 CC for agents that modulate expression of differentially expressed genes in
 CC an APC; and as hybridisation probes/amplification primers for the
 CC diagnosis, prognosis and monitoring of diseases related to abnormal
 CC expression of these genes. Detection of the dendritic cell differentially
 CC expressed genes, or of their encoded proteins, can be used to identify
 CC cells as belonging to the monocyte lineage. Cells containing these genes
 CC can be used in active immunotherapy (or to stimulate production of a
 CC population of antigen-specific effector cells) and vectors containing
 CC them are used in gene therapy. Co-administration of tumour antigens and
 CC APC-associated costimulatory factors ensures adequate antigen
 CC presentation to endogenous APCs and upregulates the APCs for the
 CC presentation of co-stimulatory signals, migration to T cell-rich sites,
 CC secretion of T cell growth factors and secretion of chemokines for
 CC recruitment of immune effector cells
 CC
 SQ Sequence 10 BP; 3 A; 0 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 38;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1028 AGAAGGTGC 1036
 Db 2 AGAAGGTGC 10

RESULT 34
 AA282426
 ID AA282426 standard; DNA; 10 BP.
 AC AA282426;
 XX
 DT 07-APR-2000 (first entry)
 XX
 DE Metastatic breast tumour cell upregulated transcript tag #1660.
 XX
 KM Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KM non-metastatic breast tumour tissue; gene therapy; anticancer;
 KM antimetastatic; vaccine; diagnosis; ss.
 XX
 OS Homo sapiens.
 XX
 PN MO9965928-A2.
 XX
 PD 23-DEC-1999.
 XX
 PF 18-JUN-1999; 99WO-US013647.
 XX

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PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
XX (GENZ ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
XX Roberts BL, Shankara S;
XX
XX WPI; 2000-106079/09.
XX
XX Isolated polymucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
XX Claim 1; Page 103; 219pp; English.
XX
CC AA280767 to AA283941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
CC to AA286677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
XX Sequence 10 BP; 1 A; 5 C; 1 G; 3 T; 0 U; 0 Other;
SQ
Query Match 45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1018 CTTCTGCCC 1026
Db 2 CTTCTGCCC 10
XX
RESULT 35
AAF42275
ID AAF42275 standard; DNA; 10 BP.
XX
XX AAF42275;
AC
XX
XX 23-MAR-2001 (first entry)
DT
XX
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:9014.
DE
XX
XX Yeast; Saccharomyces cerevisiae; Characterisation; cell cycle; NORF;
KW not previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX
XX Saccharomyces cerevisiae.
OS
XX
XX WO200077214-A2.
XX
XX 21-DEC-2000.
PD

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XX
XX 14-JUN-2000; 2000WO-US016223.
XX
XX 16-JUN-1999; 99US-00335032.
PR
XX
XX (UYJO ) UNIV JOHNS HOPKINS.
PA
XX
XX Velculescu V, Vogelstein B, Kinzler K;
XX
XX WPI; 2001-061874/07.
XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
XX Example; Page 321; 419pp; English.
XX
XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10x between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
XX Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;
SQ
Query Match 45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1026 CAAGAAGGT 1034
Db 2 CAAGAAGGT 10
XX
RESULT 36
ABT14287/c
ID ABT14287 standard; DNA; 10 BP.
XX
XX ABT14287;
AC
XX
XX 20-FEB-2003 (first entry)
DT
XX
XX Nucleic acid PCR amplification method-related RAPD PCR primer #57.
DE
XX
XX Nucleic acid amplification; nucleic acid analysis; DNA analysis; ss;
KW RNA analysis; RAPD; PCR; primer; random amplified polymorphic DNA.
XX
XX Unidentified.
OS
XX
XX WO200281743-A2.
XX
XX
XX

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PD 17-OCT-2002.
XX 26-MAR-2002; 2002WO-GB001489.
XX 02-APR-2001; 2001GB-00008182.
XX (HAMI/) HAMILL B.
XX Hamill B;
XX WPI; 2003-075484/07.
XX Amplification of nucleotide sequences from polynucleotides by chain
XX extension of oligonucleotide primers, comprises 2 oligonucleotides in
XX solution, 2 attached to supports and both share complementary sequences.
XX
XX Disclosure; Fig 17; 60pp; English.
XX
XX The invention comprises a method for the PCR amplification of nucleic
XX acids. The method involves a set of primers, where two of the primers are
XX in solution and at least two other primers are attached to a solid
XX support. The method of the invention can be used for the analysis of a
XX nucleic acid or a mixture of nucleic acids, including: single-stranded
XX DNA molecules, double-stranded DNA molecules and mRNA molecules. The
XX present DNA sequence represents a random amplified polymorphic DNA (RAPD)
XX PCR primer of the invention
XX
XX Sequence 10 BP; 1 A; 2 C; 4 G; 3 T; 0 U; 0 Other;
SQ
Query Match 45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1022 TGCCCAAGA 1030
DB 10 TGCCCAAGA 2
RESULT 37
ADG98610/c
ID ADG98610 standard; DNA; 10 BP.
XX
XX ADG98610;
AC
XX 11-MAR-2004 (first entry)
DT
XX
XX Human CERP gene allele specific extension PCR primer #71.
DE
XX human; cholesterol ester transfer protein; CERP;
XX single nucleotide polymorphism; SNP; drug screening; atherosclerosis;
XX cardiovascular disease; hypercholesterolaemia;
XX allele specific oligonucleotide; ss; extension PCR; primer.
XX
XX Homo sapiens.
OS
XX WO2003091277-A2.
PN
XX 06-NOV-2003.
PD
XX 28-APR-2003; 2003WO-US013288.
PF
XX 26-APR-2002; 2002US-0375791P.
PR
XX (GENA-) GENAISSANCE PHARM INC.
PA
XX Anastasio AE, Chew A, Kazemi A, Iachowicz M, Lee HH, Parks KE;
PI Petersen N, Rounds E, Sausker EA, Tirrell C;
XX WPI; 2003-865576/80.
DR
XX New isolated polynucleotide useful for haplotyping and/or genotyping
XX PT cholesterol ester transfer protein (CERP) gene in an individual or in
XX screening for drugs useful in treating diseases associated with CERP

PT activity.
XX Claim 45; SEQ ID NO 242; 250pp; English.
XX
XX The invention comprises the amino acid and coding sequences of the human
XX cholesterol ester transfer protein (CERP), the invention also comprises
XX polymorphisms identified within the CERP gene. The DNA and protein
XX sequences of the invention are useful in haplotyping and/or genotyping
XX the CERP gene in an individual. The DNA and protein sequences may also be
XX used to screen drugs or compounds targeting the CERP or its variant to
XX treat a condition or disease associated with CERP (e.g. atherosclerosis,
XX cardiovascular disease or hypercholesterolaemia). The present DNA
XX sequence represents an allele specific extension PCR primer for the human
XX CERP gene.
XX
XX Sequence 10 BP; 1 A; 6 C; 0 G; 3 T; 0 U; 0 Other;
SQ
Query Match 45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1028 AGAAGGTGG 1036
DB 9 AGAAGGTGG 1
RESULT 38
AAA87795/c
ID AAA87795 standard; DNA; 11 BP.
XX
XX AAA87795;
AC
XX 28-NOV-2000 (first entry)
DT
XX
XX Promoter P15B3 transcription factor binding site SEQ ID #159.
DE
XX
XX Human; secreted protein; forensic procedure; gene therapy;
XX chromosome mapping; cancer; autoimmune disease; cardiovascular disorder;
XX cystic fibrosis; hypothyroidism; immunological disorder; amyloidosis;
XX brain disorder; skeletal muscle disorder; eye disorder; obesity;
XX mitochondrial cytopathy; diabetes; atherosclerosis; Alzheimer's disease;
XX neurodegenerative disorder; graft rejection; dementia; hyperlipidaemia;
XX septic shock; impotence; promoter; P15B3; ds.
XX
XX Homo sapiens.
OS
XX WO20037491-A2.
PN
XX 29-JUN-2000.
PD
XX 20-DEC-1999; 99WO-IB002058.
PF
XX 22-DEC-1998; 98US-0113686P.
PR 25-JUN-1999; 99US-0141032P.
XX
XX (GEST) GENSET.
PA
XX Bougueleret L, Dumas J, Duclert A;
PI WPI; 2000-442637/38.
DR
XX Polynucleotides and polypeptides encoding proteins with signal peptides,
XX PT useful in diagnostic, forensic, gene therapy and chromosome mapping
XX procedures.
XX
XX Example 48; Fig 5; 306pp; English.
XX This sequence represents a transcription factor binding site identified
XX in the human P15B3 promoter. The invention relates to sequences AAA87725-
XX AAA87774 which encode human secreted proteins AAB25763-B25812. The proteins
XX include signal peptides. The P15B3 promoter is used in the isolation of
XX the cDNAs of the invention. Included in the invention are a host cell
XX containing one of the cDNA sequences, and a purified antibody capable of

CC binding to one of the secreted proteins. Also contained in the invention
CC are methods for storing the sequence data on a computer system, and a
CC method for identifying features of the cDNA sequences using a computer
CC programme. The cDNAs are useful for expressing secreted proteins or
CC fragments to obtain antibodies capable of specifically binding to the
CC secreted proteins. The cDNAs may also be useful in diagnostic, forensic,
CC gene therapy and chromosome mapping procedures and may be used to design
CC expression vectors and secretion vectors. The proteins of the invention
CC may be used to treat diseases including cancer, autoimmune diseases,
CC cardiovascular disorders, cystic fibrosis, hypothyroidism, immunological
CC disorders, amyloidosis, brain disorders, skeletal muscle disorders, eye
CC disorders, obesity, mitochondrialcytopathies, diabetes, atherosclerosis,
CC neurodegenerative disorders, graft rejection, Alzheimer's disease,
CC dementia, hyperlipidaemia, septic shock and impotence

CC Sequence 11 BP; 1 A; 7 C; 0 G; 3 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1029 GAAGTGGG 1037
Db 10 GAAGTGGG 2

RESULT 39

AA07926/C
ID AA07926 standard; DNA; 11 BP.

AC AA07926;

DT 23-OCT-2001 (first entry)

DE Human transcription factor binding site from promoter P15B4 #5.

XX Human; expressed sequence tag; EST; ds; promoter P15B4;
KW acute myocardial infarction; acute ischaemic stroke; diabetes; anaemia;
KW growth hormone deficiency; hepatitis; kidney carcinoma;
KW multiple sclerosis; chemotherapy-induced neutropenia;
KW transcription factor binding site.

OS Homo sapiens.

XX EP1104808-A1.

PN 06-JUN-2001.

PD 27-JUL-2000; 2000EP-00202699.

PF 05-AUG-1999; 99US-0147499P.

PR (GENSET) GENSET.

PA Dumas Milne Edwards J, Jobert S, Giordano J;

XX WPI; 2001-357986/38.

DR New purified 5' expressed sequence tags useful in diagnostic, forensic,
PT gene therapy or chromosome mapping procedures, or for distinguishing
PT human tissues or cells from non-human tissues or cells.

XX Example 53; Fig 5; 90pp; English.

CC The sequence represents a transcription factor binding site from human
CC promoter P15B4, the promoter and binding site being isolated using
CC sequence from one of the 5' expressed sequence tags (EST) of the
CC invention, one of 15442 nucleotide sequences not given in the
CC specification. The 5' EST may be used to efficiently identify and isolate
CC 5'untranslated regions (UTRs) and upstream regulatory regions which
CC control the location, developmental stage, rate and quantity of protein
CC synthesis, as well as the stability of the mRNA. ESTs containing the 5'
CC ends of protein genes may include sequences for chromosome mapping and

CC identification individuals. The EST may further be used to distinguish
CC human tissues or cells from non-human tissues or cells, to distinguish
CC between human tissues or cells that do not and do not express
CC polynucleotides comprising the 5' EST sequences, to obtain and express
CC cDNA clones which include full protein coding sequences of the
CC corresponding gene products, to map and clone promoter regions, and open
CC reading frames from a genomic sequence, and to obtain and express
CC extended cDNAs encoding portions of the protein. EST-related nucleic
CC acids are useful in forensic procedures or in diagnosis of genetic
CC diseases resulting from abnormal gene expression, for constructing a high
CC resolution map of human chromosomes, and in gene therapy to control or
CC treat genetic diseases. Proteins expressed from the cDNAs may be used in
CC treating or controlling a variety of human conditions e.g acute
CC myocardial infarction, acute ischaemic stroke, diabetes, anaemia, growth
CC hormone deficiency, hepatitis, kidney carcinoma, multiple sclerosis,
CC chemotherapy-induced neutropenia

CC Sequence 11 BP; 1 A; 7 C; 0 G; 3 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1029 GAAGTGGG 1037
Db 10 GAAGTGGG 2

RESULT 40

ABV6418/C
ID ABV6418 standard; cDNA; 11 BP.

AC ABV6418;

DT 21-OCT-2002 (first entry)

DE Human skin EST 2204.

XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

OS Homo sapiens.

XX WO200253774-A2.

PN 11-JUL-2002.

PD 20-DEC-2001; 2001WO-EP015179.

PF 03-JAN-2001; 2001DE-01000127.

PR (HENKEL) HENKEL KGAA.

PA Petersohn D, Conradt M, Hofmann K;

XX WPI; 2002-590638/63.

DR In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.

XX Disclosure; Page 86; 1345pp; German.

CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;

CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX
 SQ Sequence 11 BP; 3 A; 2 C; 6 G; 0 T; 0 U; 0 Other;
 Query Match 45.0%; Score 9; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 42;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1018 CTTCTGCCC 1026
 DB 9 CTTCTGCCC 1

RESULT 41
 ABV71839/c
 ID ABV71839 standard; cDNA; 11 BP.
 XX
 AC ABV71839;
 XX
 DT 21-OCT-2002 (first entry)
 XX
 DE Human skin EST 9625.
 XX
 KW Human; skin; dermatological; vulnery; antiporiatic; antiseborrhoeic;
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200253774-A2.
 XX
 PD 11-JUL-2002.
 XX
 PF 20-DEC-2001; 2001WO-EP015179.
 XX
 PR 03-JAN-2001; 2001DE-01000127.
 XX
 PA (HENKEL) HENKEL KGAA.
 XX
 PI Peterohn D, Conradt M, Hofmann K;
 XX
 DR WPI; 2002-590638/63.
 XX
 PT In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 XX
 PS Claim 24; Page 311; 1345pp; German.
 XX
 CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 CC
 XX
 SQ Sequence 11 BP; 3 A; 2 C; 6 G; 0 T; 0 U; 0 Other;
 Query Match 45.0%; Score 9; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 42;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1018 CTTCTGCCC 1026
 DB 9 CTTCTGCCC 1

RESULT 42
 AAK9270/c
 ID AAK9270 standard; DNA; 11 BP.
 XX
 AC AAK9270;
 XX
 DT 31-MAY-2002 (first entry)
 XX
 DE P15B4 promoter transcription binding site DELTAEP1_01.
 XX
 KW Promoter DNA; diagnostic; forensic; gene therapy; chromosome mapping;
 KW expression vector; secretion vector; P15B4; transcription binding site;
 KW ss.
 XX
 OS Homo sapiens.
 XX
 PN CA2343602-A1.
 XX
 PD 18-OCT-2001.
 XX
 PE 17-APR-2001; 2001CA-02343602.
 XX
 PR 18-APR-2000; 2000US-0197873P.
 XX
 PA (GENSET) GENSET.
 XX
 PI Dumas Milne Edwards JB, Jobert S, Giordano J, Tanaka H, Benjamin S;
 XX
 DR WPI; 2002-227459/29.
 XX
 PT New nucleic acid sequences comprising human expressed sequence tags
 PT (ESTs), useful in diagnostic, forensic, gene therapy or chromosome
 PT mapping procedures, or for designing expression vectors and secretion
 PT vectors.
 XX
 PS Disclosure; Fig 5; 163pp; English.
 XX
 CC The invention relates to purified nucleic acids, which comprise sequences
 CC selected from any of more than 50000 sequences not defined in the
 CC specification. The polynucleotide sequences are useful in making cDNA,
 CC polypeptides and promoter DNA, and in diagnostic, forensic, gene therapy
 CC or chromosome mapping procedures. The nucleic acid sequences are also
 CC useful for designing expression vectors and secretion vectors. This
 CC polynucleotide sequence represents a P15B4 promoter transcription binding
 CC site of the invention
 CC
 XX
 SQ Sequence 11 BP; 1 A; 7 C; 0 G; 3 T; 0 U; 0 Other;
 Query Match 45.0%; Score 9; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 42;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1029 GAAGTGGG 1037
 DB 10 GAAGTGGG 2

RESULT 43
 AAS21210/c
 ID AAS21210 standard; DNA; 11 BP.
 XX
 AC AAS21210;
 XX
 DT 09-APR-2002 (first entry)
 XX
 DE Transmissible gastroenteritis virus full length clone, C/DE-1 junction.
 XX
 KW Transmissible gastroenteritis virus; TGE; gene transfer;
 KW recombinant viral genome; gene therapy; artificial chromosome; vaccine;
 KW ds.
 XX

```

OS Transmissible gastroenteritis virus.
XX Synthetic.
FH Key Location/Qualifiers
FT mutation replace(6,T)
FT misc_feature /*tag= a
FT /*tag= 7..8
FT /*tag= b
FT /label= Cleavage site
FT /note= "Restriction enzyme Bgl1 cleaves at this site
FT creating a sticky end"
FT replace(10,A)
FT /*tag= c
XX WO200190340-A2.
XX 29-NOV-2001.
XX 21-MAY-2001; 2001WO-US016564.
XX 21-MAY-2000; 2000US-0206537P.
XX 20-APR-2001; 2001US-0285320P.
XX (UYN(-) UNIV NORTH CAROLINA.
XX Baric RS, Yount B;
XX WPI; 2002-114286/15.
XX
XX Directionally assembling a recombinant viral genome, useful for
PT manipulating the genomes of plants, animals, bacteria or viruses for gene
PT therapy, by ligating the subclones of the viral genome to assemble a
PT recombinant viral genome.
XX
XX Example 7; Page 22; 42pp; English.
XX
XX The invention describes a method of directionally assembling a
CC recombinant viral genome comprising ligating the subclones of the viral
CC genome to assemble a recombinant viral genome, particularly coronaviruses.
CC For directionally assembling a recombinant viral genome. In particular,
CC the method is useful for manipulating the genomes of higher plants and
CC animals, as well as bacteria and viruses. In particular, the method is
CC useful for the precise genetic manipulation of individual chromosomes in
CC whole plants and animals and the construction of artificial chromosomes
CC for gene therapy. The genomes produced are useful in preparing vaccines
CC and expression vectors (e.g., TGE vectors and vaccines), which are useful
CC in protocols involving vaccination, gene transfer and gene therapy. This
CC sequence represents the interconnecting junction site C/DE-1 used in the
CC assembly of the full length transmissible gastroenteritis virus (TGE)
CC genome described in the method of the invention
XX
XX Sequence 11 BP; 0 A; 4 C; 3 G; 4 T; 0 U; 0 Other;
SQ
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1025 CCAAGAGG 1033
DB 10 CCAAGAGG 2

```

```

KW dissociation curve wave pattern database; single nucleotide polymorphism;
KM SNP; primer; ss.
XX
XX Synthetic.
XX WO2003097828-A1.
XX
XX 27-NOV-2003.
XX
XX 20-MAY-2003; 2003WO-JP006275.
XX
XX 21-MAY-2002; 2002JP-00182177.
XX
XX (ADGE-) ADGENE CO LTD.
XX
XX Oshima J, Nemoto K;
XX WPI; 2004-012534/01.
XX
XX Method for identifying nucleic acids by constructing dissociation curves
PT with synthetic nucleic acids.
XX
XX Example 4; SEQ ID NO 10; 94pp; Japanese.
XX
XX The present invention describes a method for identifying nucleic acids
CC by: (1) synthesizing nucleic acids that are complementary to different
CC parts of the target nucleic acid; (2) constructing dissociation curves
CC for a mixture of the synthetic nucleic acids; and (3) by comparing the
CC wave patterns, identifying the nucleic acid with the same wave pattern to
CC have the same base sequence. Also described: (A) primers for wave pattern
CC generation; (B) producing the primers; (C) a nucleic acid identification
CC kit; (D) generating wave patterns for the dissociation curves; and (E)
CC dissociation curve wave pattern database. The method can be used for
CC nucleic acid identification which is useful in the analysis of single
CC nucleotide polymorphisms (SNPs). The present sequence represents an
CC oligonucleotide primer which is used in the exemplification of the
CC present invention.
XX
XX Sequence 11 BP; 2 A; 0 C; 8 G; 1 T; 0 U; 0 Other;
SQ
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1029 GAAGTGGG 1037
DB 2 GAAGTGGG 10

```

```

RESULT 45
ADQ33660
ID ADQ33660 standard; DNA; 11 BP.
XX
XX ADQ33660;
XX
XX 23-SEP-2004 (first entry)
XX
XX Human facial skin-associated DNA fragment SEQ ID NO 1750.
XX
XX facial skin; human; serial analysis of gene expression; SAGE;
KM homeostasis; biotech; cosmetic; pharmaceutical; ds.
XX
XX Homo sapiens.
XX
XX DE10260928-A1.
XX
XX 08-JUL-2004.
XX
XX 20-DEC-2002; 2002DE-01060928.
XX
XX 20-DEC-2002; 2002DE-01060928.
XX
XX (HENK ) HENKEL KGAA.
XX

```


XX Petersohn D, Schlotermann K, Gassenmeier T, Holtkoetter O;
PI Contract M, Hofmann K;
XX WPI; 2004-518855/50.
XX
XX In vitro identification of genes important for facial skin, useful for
PT assessing homeostasis and in screening for pharmaceutical or cosmetic
PT agents, based on differential expression analysis.
XX
XX Claim 5; SEQ ID NO 1750; 577bp; German.
XX
XX This invention describes a novel in vitro method for identifying genes
CC that are significant for facial skin in humans. The method comprises
CC recovering, from facial skin, a first mixture of genetically expressed
CC (transcribed and optionally translated) factors (i.e. proteins, mRNA or
CC their fragments), recovering a second, similar mixture from some other
CC human tissue, preferably skin from a protected area, especially from the
CC breast and subjecting the mixtures to serial analysis of gene expression
CC (SAGE) to identify those genes for which expression is markedly different
CC between facial skin and the other tissue. The invention also describes an
CC in vitro method for determining homeostasis of human facial skin; a test
CC kit which comprises a solid support (flexible or rigid) on which are
CC immobilised probes that bind specifically to the factors of interest and
CC a biochip for determining homeostasis of human facial skin. The products
CC of the invention are also used in a method which determines activity of
CC cosmetic and pharmaceutical agents for use against disorders or
CC disturbances of the homeostasis of human skin and a screening method for
CC identifying cosmetic and pharmaceutical agents. The method allows
CC identification of as many as possible of the genes important for facial
CC skin and thus of a very wide range of potential therapeutic and cosmetic
CC agents. ADQ1911-ADQ3511 represent human DNA Tag fragments used to
CC identify the facial skin-associated genes described in the invention.
XX
SQ Sequence 11 BP; 4 A; 0 C; 5 G; 2 T; 0 U; 0 Other;
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1028 AGAAGGTGG 1036
Db 2 AGAAGGTGG 10
|||||
|||||
RESULT 46
ABI19388
ID ABI19388 standard; DNA; 12 BP.
XX
AC ABI19388;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 319361 for detecting SNP TSC0029179.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX

DR WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX
PS Claim 1; SEQ ID NO 319361; 29bp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABT00010-ABT2073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 5 A; 0 C; 5 G; 2 T; 0 U; 0 Other;
Query Match 45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 46;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1027 AAGAAGGTG 1035
Db 1 AAGAAGGTG 9
|||||
|||||
RESULT 47
ABI08577
ID ABI08577 standard; DNA; 12 BP.
XX
AC ABI08577;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 308550 for detecting SNP TSC0023078.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX
PS Claim 1; SEQ ID NO 308550; 29bp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC

CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 12 BP; 6 A; 0 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 12;

Best Local Similarity 100.0%; Pred. No. 46;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1027 AAGAGGTG 1035

Db 2 AAGAGGTG 10

RESULT 48

ABI25588

ID ABI25588 standard; DNA; 12 BP.

XX AC ABI25588;

XX DT 22-FEB-2002 (first entry)

XX Oligonucleotide primer SEQ ID NO 325561 for detecting SNP TSC0032603.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX PF 06-APR-2001; 2001WO-IB000713.

XX PR 07-APR-2000; 2000DE-01019173.

XX PA (EPIG-) EPIGENOMICS AG.

XX PI Olek A, Piepenbrock C, Berlin K;

XX DR WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is

XX designed to detect single-nucleotide polymorphisms and cytosine

XX methylation status.

XX Claim 1; SEQ ID NO 325561; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic

XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

XX and cytosine methylation status in chemically pretreated genomic DNA. The

XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a

XX range of diseases including immune system, gastrointestinal, respiratory,

XX central nervous system, cardiovascular and metabolic disorders. The

XX oligomers are also used for detecting cell type differentiation. ABC00010

XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073

XX represent the oligomers described in the invention. NOTE: The sequence

XX data for this patent did not form part of the printed specification, but

XX was obtained in electronic format from WIPO at

XX ftp.wipo.int/pub/published_pct_sequences

XX Sequence 12 BP; 5 A; 0 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 12;

Best Local Similarity 100.0%; Pred. No. 46;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1029 AAGAGGTG 1037

Db 4 AAGAGGTG 12

RESULT 49

ABI13144

ID ABI13144 standard; DNA; 12 BP.

XX AC ABI13144;

XX DT 22-FEB-2002 (first entry)

XX Oligonucleotide primer SEQ ID NO 313117 for detecting SNP TSC0025502.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

Oy 1027 AAGAGGTG 1035

Db 3 AAGAGGTG 11

RESULT 49

ABI13144

ID ABI13144 standard; DNA; 12 BP.

XX AC ABI13144;

XX DT 22-FEB-2002 (first entry)

XX Oligonucleotide primer SEQ ID NO 313117 for detecting SNP TSC0025502.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX PF 06-APR-2001; 2001WO-IB000713.

XX PR 07-APR-2000; 2000DE-01019173.

XX PA (EPIG-) EPIGENOMICS AG.

XX PI Olek A, Piepenbrock C, Berlin K;

XX DR WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is

XX designed to detect single-nucleotide polymorphisms and cytosine

XX methylation status.

XX Claim 1; SEQ ID NO 313117; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic

XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

XX and cytosine methylation status in chemically pretreated genomic DNA. The

XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a

XX range of diseases including immune system, gastrointestinal, respiratory,

XX central nervous system, cardiovascular and metabolic disorders. The

XX oligomers are also used for detecting cell type differentiation. ABC00010

XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073

XX represent the oligomers described in the invention. NOTE: The sequence

XX data for this patent did not form part of the printed specification, but

XX was obtained in electronic format from WIPO at

XX ftp.wipo.int/pub/published_pct_sequences

XX Sequence 12 BP; 2 A; 0 C; 8 G; 2 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 12;

Best Local Similarity 100.0%; Pred. No. 46;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1029 AAGAGGTG 1037

Db 4 AAGAGGTG 12

RESULT 50

ABI48769/c

ID ABI48769 standard; DNA; 12 BP.

XX AC ABI48769;

XX DT 22-FEB-2002 (first entry)

DE	XX	Oligonucleotide primer SEQ ID NO 348742 for detecting SNP TSC0045724.
DE	XX	
KW	XX	SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW	XX	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW	XX	central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS	XX	Homo sapiens.
OS	XX	
PN	XX	WO200177384-A2.
PN	XX	
PD	XX	18-OCT-2001.
PD	XX	
PF	XX	06-APR-2001; 2001WO-IB000713.
PF	XX	
PR	XX	07-APR-2000; 2000DE-01019173.
PR	XX	
PA	XX	(EPIC-) EPIGENOMICS AG.
PA	XX	
PI	XX	Olek A, Piepenbrock C, Berlin K;
PI	XX	
WI	XX	WIPI, 2001-657177/75.
WI	XX	
PT	XX	Set of oligonucleotides, useful for diagnosis and cell typing, is
PT	XX	designed to detect single-nucleotide polymorphisms and cytosine
PT	XX	methylation status.
PT	XX	
PS	XX	Claim 1; SEQ ID NO 348742; 29pp + Sequence Listing; German.
PS	XX	
CC	XX	This invention describes novel oligonucleotide primers or peptide nucleic
CC	XX	acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC	XX	and cytosine methylation status in chemically pretreated genomic DNA. The
CC	XX	oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC	XX	range of diseases including immune system, gastrointestinal, respiratory,
CC	XX	central nervous system, cardiovascular and metabolic disorders. The
CC	XX	oligomers are also used for detecting cell type differentiation. ABC000010
CC	XX	-ABC99989, ABR000010-ABR99989, ABR000010-ABR99989 and ABR000010-ABR82073
CC	XX	represent the oligomers described in the invention. NOTE: The sequence
CC	XX	data for this patent did not form part of the printed specification, but
CC	XX	was obtained in electronic format from WIPO at
CC	XX	ftp.wipo.int/pub/published_pct_sequences
CC	XX	
SO	XX	Sequence 12 BP; 1 A; 7 C; 0 G; 4 T; 0 U; 0 Other;
SO	XX	
Query Match		45.0%; Score 9; DB 1; Length 12;
Best Local Similarity		100.0%; Pred. No. 46;
Matches	9; Conservative	0; Mismatches 0; Indels 0; Gaps 0
OY		1029 GAAGCTGGG 1037
OY		
OY		
OY		12 GAAGCTGGG 4
Db		
RESULT 51		
ABH88612/c		
ID	ABH88612 standard; DNA; 12 BP.	
AC		
XX	ABH88612;	
XX		
DT	22-FEB-2002 (first entry)	
DT		
XX	Oligonucleotide primer SEQ ID NO 288605 for detecting SNP TSC0013593.	
XX		
DE		
KW	SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;	
KW	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;	
KW	central nervous system; gastrointestinal; respiratory; immune; metabolic.	
OS	Homo sapiens.	
OS		
PN	WO200177384-A2.	
PN		
PD	18-OCT-2001.	
PD		

```

PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX
XX Claim 1; SEQ ID NO 288605; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation. ABC00010
XX CC -ABG9989, ABH00010-ABH99989, ABH00010-ABH99989 and ABH00010-ABH82073
XX CC represent the oligomers described in the invention. NOTE: The sequence
XX CC data for this patent did not form part of the printed specification, but
XX CC was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 12 BP; 2 A; 6 C; 0 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 45.0%; Score 9; DB 1; Length 12;
XX Best Local Similarity 100.0%; Pred. No. 46;
XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1027 AAGAAAGGTG 1035
XX |||||||
XX Db 9 AAGAAAGGTG 1
XX
XX RESULT 52
XX AB167143
XX ID AB167143 standard; DNA; 12 BP.
XX AC AB167143;
XX XX
XX DT 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 367116 for detecting SNP TSC0056171.
XX DE
XX XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX XX
XX OS Homo sapiens.
XX
XX PN WO20017384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB000713.
XX
XX PR 07-APR-2000; 2000DE-01019173.
XX
XX BA (EPIG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.

```

XX PS Claim 1; SEQ ID NO 367116; 29pp + Sequence Listing; German.
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation. ABC00010
XX CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX CC represent the oligomers described in the invention. NOTE: The sequence
XX CC data for this patent did not form part of the printed specification, but
XX CC was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences

XX SQ Sequence 12 BP; 5 A; 0 C; 4 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 45.0%; Score 9; DB 1; Length 12;
XX Best Local Similarity 100.0%; Pred. No. 46;
XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1027 AAGAGGTGG 1035
Db 1 AAGAGGTGG 9

XX RESULT 53
XX ABH94365/C
XX ID ABH94365 standard; DNA; 12 BP.
XX AC ABH94365;
XX XX
XX DT 22-FEB-2002 (first entry)
XX XX
XX DE Oligonucleotide primer SEQ ID NO 294358 for detecting SNP TSC0016077.
XX XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX XX
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX DR
XX XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX XX
XX PS Claim 1; SEQ ID NO 294358; 29pp + Sequence Listing; German.
XX XX
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation. ABC00010
XX CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX CC represent the oligomers described in the invention. NOTE: The sequence
XX CC data for this patent did not form part of the printed specification, but

CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences

XX SQ Sequence 12 BP; 2 A; 6 C; 1 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 45.0%; Score 9; DB 1; Length 12;
XX Best Local Similarity 100.0%; Pred. No. 46;
XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1028 AGAAGGTGG 1036
Db 12 AGAAGGTGG 4

XX RESULT 54
XX ABH96358/C
XX ID ABH96358 standard; DNA; 12 BP.
XX AC ABH96358;
XX XX
XX DT 22-FEB-2002 (first entry)
XX XX
XX DE Oligonucleotide primer SEQ ID NO 296351 for detecting SNP TSC0017041.
XX XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX XX
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX DR
XX XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX XX
XX PS Claim 1; SEQ ID NO 296351; 29pp + Sequence Listing; German.
XX XX
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory,
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation. ABC00010
XX CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
XX CC represent the oligomers described in the invention. NOTE: The sequence
XX CC data for this patent did not form part of the printed specification, but
XX CC was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences

XX SQ Sequence 12 BP; 1 A; 7 C; 0 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 45.0%; Score 9; DB 1; Length 12;
XX Best Local Similarity 100.0%; Pred. No. 46;
XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1029 GAAGTGGG 1037
Db 12 GAAGTGGG 4

RESULT 55	
ID	ABH74429
ABH74429	standard; DNA; 12 BP.
XX	
AC	ABH74429;
XX	
DT	22-FEB-2002 (first entry)
XX	
DE	Oligonucleotide primer SEQ ID NO 274414 for detecting SNP TSC0003539.
XX	
KW	SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW	central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS	Homo sapiens.
XX	
PN	WO200177384-A2.
XX	
PD	18-OCT-2001.
XX	
PF	06-APR-2001; 2001WO-1B000713.
XX	
PR	07-APR-2000; 2000DE-01019173.
XX	
PA	(EPIG-) EPIGENOMICS AG.
XX	
PI	Olek A, Piepenbrock C, Berlin K;
XX	
DR	WPI; 2001-657177/75.
XX	
PT	Set of oligonucleotides, useful for diagnosis and cell typing, is
PT	designed to detect single-nucleotide polymorphisms and cytosine
PT	methylation status.
XX	
PS	Claim 1; SEQ ID NO 274414; 29bp + Sequence Listing; German.
XX	
CC	This invention describes novel oligonucleotide primers or peptide nucleic
CC	acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC	and cytosine methylation status in chemically pretreated genomic DNA. The
CC	oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC	range of diseases including immune system, gastrointestinal, respiratory,
CC	central nervous system, cardiovascular and metabolic disorders. The
CC	oligomers are also used for detecting cell type differentiation. ABC00010
CC	-ABC99989, ABH00010-ABF99989, ABH00010-ABH99989 and ABH00010-ABH82073
CC	represent the oligomers described in the invention. NOTE: The sequence
CC	data for this patent did not form part of the printed specification, but
CC	was obtained in electronic format from WIPO at
CC	ftp.wipo.int/pub/published_pct_sequences
XX	
SQ	Sequence 12 BP; 3 A; 0 C; 7 G; 2 T; 0 U; 0 Other;
	Query Match 45.0%; Score 9; DB 1; Length 12;
	Best Local Similarity 100.0%; Pred. No. 46;
	Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY	1029 GAGGTGGG 1037
DB	3 GAGGTGGG 11
RESULT 56	
ID	ABH70993
ABH70993	standard; DNA; 12 BP.
XX	
AC	ABH70993;
XX	
DT	22-FEB-2002 (first entry)
XX	
DE	Oligonucleotide primer SEQ ID NO 270970 for detecting SNP TSC0002341.
XX	
KW	SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

XX	centralnervous system; gastrointestinal; respiratory; immune; metabolic
KW	
XX	
OS	Homo sapiens.
XX	
PN	WO200177384-A2.
XX	
PD	18-OCT-2001.
XX	
PF	06-APR-2001; 2001WO-IB000713.
XX	
PR	07-APR-2000; 2000DE-01019173.
XX	
PA	(EPIG-) EPIGENOMICS AG.
XX	
PI	Olek A, Piepenbrock C, Berlin K;
DR	WPI; 2001-657177/75.
XX	
PT	Set of oligonucleotides, useful for diagnosis and cell typing, is
PT	designed to detect single-nucleotide polymorphisms and cytosine
PT	methylation status.
XX	
PS	Claim 1; SEQ ID NO 270970; 29pp + Sequence Listing; German.
XX	
CC	This invention describes novel oligonucleotide primers or peptide nucleic
CC	acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC	and cytosine methylation status in chemically pretreated genomic DNA. The
CC	oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC	range of diseases including immune system, gastrointestinal, respiratory,
CC	central nervous system, cardiovascular and metabolic disorders. The
CC	oligomers are also used for detecting cell type differentiation. ABC000010
CC	-ABG93989, ABR00010-ABR93989, ABH00010-ABH93989 and ABI00010-ABI82073
CC	represent the oligomers described in the invention. NOTE: The sequence
CC	data for this patent did not form part of the printed specification, but
CC	was obtained in electronic format from WIPO at
CC	ftp.wipo.int/pub/published_pct_sequences
XX	
SEQ	Sequence 12 BP; 2 A; 0 C; 6 G; 4 T; 0 U; 0 Other;
XX	
Query Match	45.0%; Score 9; DB 1; Length 12;
Best Local Similarity	100.0%; Pred. No. 46;
Matches	9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QV	1029 GAAGGTGGG 1037
DB	3 GAAGGTGGG 11
XX	
RESULT 57	
ABH88613/c	
ID	ABH88613 standard; DNA; 12 BP.
XX	
AC	ABH88613;
XX	
DT	22-FEB-2002 (first entry)
XX	
DE	Oligonucleotide primer SEQ ID NO 288606 for detecting SNP TSC0013593.
XX	
KM	SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW	peptide nucleic acid; cytosine methylation; cardiovascular; primer; seg;
KM	central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX	
OS	Homo sapiens.
XX	
PN	WO200177384-A2.
XX	
PD	18-OCT-2001.
XX	
PF	06-APR-2001; 2001WO-IB000713.
XX	
PR	07-APR-2000; 2000DE-01019173.
XX	
PA	(EPIG-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 288606; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 1 A; 6 C; 1 G; 4 T; 0 U; 0 Other;
XX
Query Match 45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 46;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1027 AGAAGGTG 1035
|||
9 AAGAAGGTG 1
XX
RESULT 58
ABIS2693/C
ID ABIS2693 standard; DNA; 12 BP.
XX
AC ABIS2693;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 352666 for detecting SNP TSC0048025.
XX
SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPig-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 352666; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 4 A; 5 C; 0 G; 3 T; 0 U; 0 Other;
XX
Query Match 45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 46;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1028 AGAAGGTG 1036
|||
10 AAGAAGGTG 2
XX
RESULT 59
ABI40468
ID ABI40468 standard; DNA; 12 BP.
XX
AC ABI40468;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 340441 for detecting SNP TSC0041530.
XX
SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPig-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 340441; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 3 A; 0 C; 6 G; 3 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 46;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1028 AGAAGCTGG 1036
 |||||
 1 AGAAGCTGG 9

Db 1 AGAAGCTGG 9

RESULT 60

AB110163
 ID AB110163 standard; DNA; 12 BP.
 AC AB110163;
 XX
 XX 22-FEB-2002 (first entry)
 DT
 XX
 DE Oligonucleotide primer SEQ ID NO 310136 for detecting SNP TSC0023830.
 XX
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 PN
 XX 18-OCT-2001.
 PD
 XX 06-APR-2001; 2001WO-IB000713.
 PF
 XX 07-APR-2000; 2000DE-01019173.
 PR
 XX
 XX (EPIC-) EPIGENOMICS AG.
 PA
 XX Olek A, Piepenbrock C, Berlin K;
 PI
 XX WPI; 2001-657177/75.
 DR
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 PT
 XX
 PS Claim 1; SEQ ID NO 310136; 29pp + Sequence Listing; German.
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 CC
 XX
 XX Sequence 12 BP; 3 A; 0 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 46;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1028 AGAAGCTGG 1036
 |||||
 4 AGAAGCTGG 12

Db 4 AGAAGCTGG 12

RESULT 61

ABH94363/C
 ID ABH94363 standard; DNA; 12 BP.
 XX

AC ABH94363;
 XX
 XX 22-FEB-2002 (first entry)
 DT
 XX
 DE Oligonucleotide primer SEQ ID NO 294356 for detecting SNP TSC0016077.
 XX
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 PN
 XX 18-OCT-2001.
 PD
 XX 06-APR-2001; 2001WO-IB000713.
 PF
 XX 07-APR-2000; 2000DE-01019173.
 PR
 XX
 XX (EPIC-) EPIGENOMICS AG.
 PA
 XX Olek A, Piepenbrock C, Berlin K;
 PI
 XX WPI; 2001-657177/75.
 DR
 XX
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 PT
 XX
 PS Claim 1; SEQ ID NO 294356; 29pp + Sequence Listing; German.
 XX
 XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 CC
 XX
 XX Sequence 12 BP; 3 A; 6 C; 0 G; 3 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 46;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1028 AGAAGCTGG 1036
 |||||
 12 AGAAGCTGG 4

Db 12 AGAAGCTGG 4

RESULT 62

AB173341
 ID AB173341 standard; DNA; 12 BP.
 AC AB173341;
 XX
 XX 22-FEB-2002 (first entry)
 DT
 XX
 DE Oligonucleotide primer SEQ ID NO 373314 for detecting SNP TSC0059971.
 XX
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 XX WO200177384-A2.
 PN

```
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DB-01019173.
XX
XX (EPiG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 373114; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI99989
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 12 BP; 5 A; 0 C; 6 G; 1 T; 0 U; 0 Other;
XX
XX Query Match 45.0%; Score 9; DB 1; Length 12;
XX Best Local Similarity 100.0%; Pred. No. 46;
XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1028 AGAGGTGG 1036
XX 1 AGAGGTGG 9
XX
XX RESULT 63
XX AAD25619/c
XX ID AAD25619 standard; DNA; 12 BP.
XX
XX AAD25619;
XX
XX 26-MAR-2002 (first entry)
XX
XX ML/Cy5 LNA probe used for haplotyping ML-AF4/98(+) chimeric gene.
XX
XX Haplotyping; single molecule detection; luminescent marker;
XX genetic marker; ML-AF4/98(+); locked nucleic acid; LNA; probe; ss.
XX
XX Unidentified.
XX
XX Key Location/Qualifiers
XX modified_base 1
XX /*tag= a
XX /mod_base= OTHER
XX /note= "N,N'-biscarboxypentyl-5, 5'-
XX disulfonateindodicarboxyanine (Cy5) fluorophore labelled
XX thymine"
XX
XX WO200190418-A1.
XX
XX 29-NOV-2001.
XX
XX 22-MAY-2001; 2001WO-US016394.
XX
XX 22-MAY-2000; 2000US-0206512P.
XX
XX
```

```
XX (REGC ) UNIV CALIFORNIA.
XX
XX Cai H, Goodwin PM, Keller RA, Werner JH;
XX
XX WPI; 2002-083123/11.
XX
XX Rapid haplotyping of DNA or RNA segments, comprises labeling at least 2
XX target sites on a segment of DNA or RNA with separate distinguishable
XX luminescent hybridization probes.
XX
XX Example 1; Page 22; 49pp; English.
XX
XX The invention relates to rapid haplotyping a DNA or RNA segment by single
XX molecule detection. The method involves labelling at least 2 target sites
XX on a DNA or RNA segment with separate distinguishable luminescent marker
XX hybridization probes, where the targets are selected genetic markers and
XX detecting the presence or absence of each luminescent hybridisation probe
XX on each DNA segment to determine the haplotype of each DNA or RNA
XX segment. The method is useful for rapid haplotyping of DNA or RNA
XX for haplotyping ML-AF4/98(+) chimeric gene
XX
XX Sequence 12 BP; 0 A; 3 C; 3 G; 6 T; 0 U; 0 Other;
XX
XX Query Match 45.0%; Score 9; DB 1; Length 12;
XX Best Local Similarity 100.0%; Pred. No. 46;
XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1023 GCCCAAGAA 1031
XX 10 GCCCAAGAA 2
XX
XX RESULT 64
XX AAD25617/c
XX ID AAD25617 standard; DNA; 12 BP.
XX
XX AAD25617;
XX
XX 26-MAR-2002 (first entry)
XX
XX ML/Cy5P PNA probe used for haplotyping ML-AF4/98(+) chimeric gene.
XX
XX Haplotyping; single molecule detection; luminescent marker;
XX genetic marker; ML-AF4/98(+); peptide nucleic acid; PNA; probe; ss.
XX
XX Unidentified.
XX
XX Key Location/Qualifiers
XX modified_base 1
XX /*tag= a
XX /mod_base= OTHER
XX /note= "N,N'-biscarboxypentyl-5, 5'-
XX disulfonateindodicarboxyanine (Cy5) fluorophore labelled
XX thymine; This base is linked to the label via linker"
XX
XX misc_feature 12
XX /*tag= b
XX /note= "This base is attached to a linker sequence"
XX
XX WO200190418-A1.
XX
XX 29-NOV-2001.
XX
XX 22-MAY-2001; 2001WO-US016394.
XX
XX 22-MAY-2000; 2000US-0206512P.
XX
XX (REGC ) UNIV CALIFORNIA.
XX
XX Cai H, Goodwin PM, Keller RA, Werner JH;
XX
XX WPI; 2002-083123/11.
XX
XX
```


XX Rapid haplotyping of DNA or RNA segments, comprises labeling at least 2
PT target sites on a segment of DNA or RNA with separate distinguishable
PT luminescent hybridization probes.
XX
PS Example 1; Page 22; 49pp; English.
XX
CC The invention relates to rapid haplotyping a DNA or RNA segment by single
CC molecule detection. The method involves labelling at least 2 target sites
CC on a DNA or RNA segment with separate distinguishable luminescent marker
CC hybridisation probes, where the targets are selected genetic markers and
CC detecting the presence or absence of each luminescent hybridisation probe
CC on each DNA segment to determine the haplotype of each DNA or RNA
CC segment. The method is useful for rapid haplotyping of DNA or RNA
CC for haplotyping MLV-AF4/98(+) chimeric gene
XX
SQ Sequence 12 BP; 0 A; 3 C; 3 G; 6 T; 0 U; 0 Other;
Query Match 45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 46;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1023 GCCCAGAA 1031
Db 10 GCCCAGAA 2
AC ADB28540;
XX
DT 12-AUG-2004 (first entry)
DE Human secreted protein encoding sequence SEQ ID #538.
XX
KM Cytostatic; Antiinflammatory; Immunosuppressive; Antibacterial; Virucide;
KW cancer; Inflammatory; Immune; ds; human secreted protein.
XX
OS Homo sapiens.
XX
PN NC02004035732-A2.
XX
PD 29-APR-2004.
XX
PF 28-AUG-2003; 2003WO-US026780.
XX
PR 29-AUG-2002; 2002US-0406576P.
PR 29-AUG-2002; 2002US-0406579P.
PR 29-AUG-2002; 2002US-0406585P.
PR 29-AUG-2002; 2002US-0406588P.
PR 29-AUG-2002; 2002US-0406608P.
PR 29-AUG-2002; 2002US-0406611P.
PR 29-AUG-2002; 2002US-0406612P.
PR 29-AUG-2002; 2002US-0406616P.
PR 29-AUG-2002; 2002US-0406642P.
PR 29-AUG-2002; 2002US-0406646P.
PR 29-AUG-2002; 2002US-0406653P.
PR 29-AUG-2002; 2002US-0406655P.
PR 29-AUG-2002; 2002US-0406666P.
PR 17-SEP-2002; 2002US-0410946P.
PR 17-SEP-2002; 2002US-0410947P.
PR 17-SEP-2002; 2002US-0410948P.
PR 17-SEP-2002; 2002US-0410949P.
PR 17-SEP-2002; 2002US-0410953P.
PR 17-SEP-2002; 2002US-0410957P.
PR 17-SEP-2002; 2002US-0410958P.
PR 17-SEP-2002; 2002US-0410959P.
PR 17-SEP-2002; 2002US-0410960P.
PR 17-SEP-2002; 2002US-0410961P.

PR 17-SEP-2002; 2002US-0410962P.
PR 17-SEP-2002; 2002US-0411019P.
PR 17-SEP-2002; 2002US-0411022P.
PR 17-SEP-2002; 2002US-0411023P.
PR 17-SEP-2002; 2002US-0411024P.
PR 17-SEP-2002; 2002US-0411032P.
PR 17-SEP-2002; 2002US-0411035P.
PR 17-SEP-2002; 2002US-0411037P.
PR 17-SEP-2002; 2002US-0411041P.
PR 17-SEP-2002; 2002US-0411045P.
PR 17-SEP-2002; 2002US-0411046P.
PR 17-SEP-2002; 2002US-0411048P.
PR 17-SEP-2002; 2002US-0411052P.
PR 17-SEP-2002; 2002US-0411055P.
PR 17-SEP-2002; 2002US-0411073P.
PR 17-SEP-2002; 2002US-0411082P.
PR 17-SEP-2002; 2002US-0411101P.
PR 17-SEP-2002; 2002US-0411111P.
PR 18-APR-2003; 2003US-0463708P.
PR 18-APR-2003; 2003US-0463716P.
PR 18-APR-2003; 2003US-0463732P.
PR 02-MAY-2003; 2003US-0467199P.
PR 02-MAY-2003; 2003US-0467201P.
PR 02-MAY-2003; 2003US-0467203P.
PR 02-MAY-2003; 2003US-0467230P.
PR 19-MAY-2003; 2003US-0471306P.
PR 19-MAY-2003; 2003US-0471366P.
PR 22-MAY-2003; 2003US-0472420P.
PR 22-MAY-2003; 2003US-0472430P.
PR 09-JUN-2003; 2003US-0476609P.
PR 09-JUN-2003; 2003US-0476641P.
PR 08-JUL-2003; 2003US-0485218P.
PR 08-JUL-2003; 2003US-0485223P.
PR 08-JUL-2003; 2003US-0485224P.
PR 08-JUL-2003; 2003US-0485325P.
PR 14-JUL-2003; 2003US-0486446P.
PR 14-JUL-2003; 2003US-0486480P.
PR 15-JUL-2003; 2003US-0486891P.
PR 15-JUL-2003; 2003US-0486960P.
PR 08-AUG-2003; 2003US-0493341P.
PR 08-AUG-2003; 2003US-0493370P.
PR 08-AUG-2003; 2003US-0493573P.
PR 08-AUG-2003; 2003US-0493577P.
XX
XX
PA (FIVE-) FIVE PRIME THERAPEUTICS INC.
XX
PI Williams LT, Chu K, Lee E, Hestir K, Beaurang PA, Behrens D;
PI Halenbeck RF, Huang MM, Kochakota S, Haishan L, Linnemann T;
PI Pierce K, Wang Y, Wong JGP, Wu G, Zhang H;
XX
XX WPI; 2004-348438/32.
XX
PT New nucleic acid molecule for diagnosing, preventing or treating diseases
PT such as proliferative (e.g. cancer), inflammatory, immune, metabolic,
PT genetic, bacterial and viral diseases.
XX
XX
PS Claim 1; SEQ ID NO 538; 428pp; English.
XX
XX The present invention relates to an isolated nucleic acid molecule
CC encoding a polypeptide which is believed to be cytostatic,
CC antiinflammatory, immunosuppressive, antibacterial and virucidal. The
CC composition and methods are useful for diagnosing, preventing and
CC treating diseases such as proliferative (e.g. cancer), inflammatory,
CC immune, metabolic, genetic, bacterial and viral diseases. The present
CC sequence represents a human secreted protein encoding sequence. The
CC present sequence is available on WIPOMB and is not in the specification.
XX
SQ Sequence 12 BP; 1 A; 3 C; 4 G; 4 T; 0 U; 0 Other;
Query Match 45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 46;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1025 CCAAGAGG 1033
 |||||
 DB 12 CCAAGAGG 4

RESULT 66
 AAT14161
 ID AAT14161 standard; DNA; 10 BP.
 XX
 AC AAT14161;
 XX
 DT 29-MAY-1996 (first entry)
 XX
 DE Cytokine responsive DNA spacer regulatory element.
 XX
 KM Regulatory element; transcriptional regulatory protein;
 KM signalling molecule; DNA spacer; agonist; antagonist; anaemia;
 KM gene transcription; inflammation; cytopenia; cancer; ss.
 XX
 OS Synthetic.
 XX
 PN WO9528482-A2.
 XX
 PD 26-OCT-1995.
 XX
 PF 10-APR-1995; 95WO-US004477.
 XX
 PR 14-APR-1994; 94US-00228935.
 PR 27-MAR-1995; 95US-00410780.
 XX
 PA (LIGA-) LIGAND PHARM INC.
 XX
 PI Seidel HM, Lamb IP;
 XX
 DR WPI; 1995-373797/48.
 XX
 PT DNA spacer regulatory elements responsive to cytokine(s) - for detecting
 PT the presence of transcriptional regulatory protein in a sample.
 XX
 PS Claim 7; Page 125; 135pp; English.
 XX
 CC The present oligonucleotide comprises a regulatory element TT(Nx)AA,
 CC where x is 4-7, and the regulatory element binds an activated
 CC transcriptional regulatory protein in response to a signalling mol., i.e.
 CC a cytokine. This cytokine responsive DNA spacer regulatory element can be
 CC used to detect the presence of a transcriptional regulatory protein in a
 CC sample, and in assays for (ant)agonists of gene transcription. The
 CC identified cpds. may be used to treat cytokine-induced disease states, or
 CC to ameliorate disease states caused by cytokine deficiency, e.g.
 CC inflammation, anaemia, cytopenia and (pre)cancerous conditions
 XX
 SQ Sequence 10 BP; 4 A; 3 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 53;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1022 TGCCCAAGAA 1031
 |||||
 DB 1 TTCCCAAGAA 10

RESULT 67
 AAV56888
 ID AAV56888 standard; DNA; 10 BP.
 XX
 AC AAV56888;
 XX
 DT 02-DEC-1998 (first entry)
 XX
 DE Regulatory element containing oligonucleotide #47.
 XX

KM Cytokine-responsive regulatory; primer; promoter; detection; isolation;
 KM transcriptional control; STAT protein; screening; agonist; ss.
 XX
 OS Synthetic.
 XX
 PN US5814517-A.
 XX
 PD 29-SEP-1998.
 XX
 PF 27-MAR-1995; 95US-00410779.
 XX
 PR 14-APR-1994; 94US-00228935.
 XX
 PA (LIGA-) LIGAND PHARM INC.
 XX
 PI Lamb IP, Seidel HM;
 XX
 DR WPI; 1998-541763/46.
 XX
 PT DNA constructs containing cytokine-responsive regulatory elements -
 PT useful in assays for transcription-regulating proteins or gene
 PT transcription agonists or antagonists.
 XX
 PS Disclosure; Col 12; 58pp; English.
 XX
 CC AAV56842-V56976 and AAV61601-V61631 are oligonucleotides used in the
 CC production of constructs comprising a cytokine-responsive regulatory
 CC element linked to a promoter which is linked to a heterologous coding
 CC sequence so that the coding sequence is under the transcriptional control
 CC of the regulatory element and the promoter, where the regulatory element
 CC has a nucleotide sequence selected from TT(C)NNGAA, TTANYTAA, and TTCNYTAA
 CC where N is A, T, C or G, and y = 3 or 4. The constructs can be used to
 CC detect or isolate transcription-regulating proteins, e.g. STAT proteins,
 CC in a sample by contacting the sample with the construct so that the
 CC protein binds to the regulatory element, and detecting or separating the
 CC resulting complex. The cells can be used in screening assays for agonists
 CC of gene transcription, in which the level of expression of the coding
 CC sequence is measured in the presence and absence of a test compound or in
 CC the presence of the corresponding cytokine
 XX

SQ Sequence 10 BP; 4 A; 3 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 53;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1022 TGCCCAAGAA 1031
 |||||
 DB 1 TTCCCAAGAA 10

RESULT 68
 AA279653
 ID AA279653 standard; DNA; 10 BP.
 XX
 AC AA279653;
 XX
 DT 10-APR-2000 (first entry)
 XX
 DE Human dendritic cell SAGE tag, SEQ ID NO:2081.
 XX
 KM SAGE tag; serial analysis of gene expression; antigen-presenting cell;
 KM APC; monocyte-derived dendritic cell; differential gene expression;
 KM immunostimulatory cofactor; costimulatory factor; CTL;
 KM cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO965924-A2.
 XX
 PD 23-DEC-1999.
 XX
 PF 18-JUN-1999; 99WO-US013800.

XX	19-JUN-1998;	98US-0089833P.
PR	19-JUN-1998;	98US-0089844P.
PR	19-JUN-1998;	98US-0089853P.
PR	19-JUN-1998;	98US-0089878P.
PR	19-JUN-1998;	98US-0089891P.
PR	19-JUN-1998;	98US-0089892P.
PR	19-JUN-1998;	98US-0089893P.
PR	19-JUN-1998;	98US-0089894P.
PR	19-JUN-1998;	98US-0089897P.
PR	19-JUN-1998;	98US-0090000P.
PR	19-JUN-1998;	98US-0090035P.
PR	19-JUN-1998;	98US-0090036P.
PR	19-JUN-1998;	98US-0090039P.
PR	19-JUN-1998;	98US-0090040P.
PR	19-JUN-1998;	98US-0090041P.
PR	19-JUN-1998;	98US-0090042P.
PR	19-JUN-1998;	98US-0090043P.
PR	19-JUN-1998;	98US-0090044P.
PR	19-JUN-1998;	98US-0090045P.
PR	19-JUN-1998;	98US-0090047P.
PR	19-JUN-1998;	98US-0090048P.
PR	19-JUN-1998;	98US-0090072P.
PR	19-JUN-1998;	98US-0090076P.
PR	19-JUN-1998;	98US-0090077P.
PR	19-JUN-1998;	98US-0090078P.
PR	19-JUN-1998;	98US-0090079P.
PR	19-JUN-1998;	98US-0090080P.
PR	08-DEC-1998;	98US-0111715P.
XX	(GENZ) GENZYME CORP.	
PA	(SHAN/) ROBERTS B L.	
PA	(ROBE/) SHANKARA S.	
XX		
PI	Roberts BL, Shankara S;	
XX		
DR	WPI: 2000-106077/09.	
PT	Isolated polynucleotides differentially expressed in antigen-presenting	
PT	cells, useful in gene vaccines against cancer.	
XX		
PS	Claim 1; Page 124; 130pp; English.	
XX		
CC	Sequences A1277573-279709 represent SAGE (serial analysis of gene	
CC	expression) tags used to identify mRNA transcripts encoding	
CC	immunostimulatory cofactor proteins which are preferentially or	
CC	differentially expressed in monocyte-derived dendritic cells compared	
CC	with monocytes. Some of the transcripts correspond to known genes or ESTs	
CC	(expressed sequence tags) which were previously unknown to be	
CC	preferentially or differentially expressed in dendritic cells, while	
CC	other transcripts correspond to novel genes. Antigen-presenting cell	
CC	(APC)-associated costimulatory factors play an important role in the	
CC	activation of the cytotoxic immune response, particularly against tumour	
CC	cells. Tumour antigen presentation via the MHC (major histocompatibility	
CC	complex) and subsequent recognition by T-cell receptors is alone	
CC	insufficient to activate a robust cytotoxic immune response that can lyse	
CC	the tumour cells, immunostimulatory cofactors also being required for	
CC	efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid	
CC	sequences identified using the SAGE tags have several potential uses.	
CC	They may be used in vaccines to induce an immune response, particularly	
CC	against a tumour antigen; to modulate the genotype of an APC; to screen	
CC	for agents that modulate expression of differentially expressed genes in	
CC	an APC; and as hybridisation probe/amplification primers for the	
CC	diagnosis, prognosis and monitoring of diseases related to abnormal	
CC	expression of these genes. Detection of the dendritic cell differentially	
CC	expressed genes, or of their encoded proteins, can be used to identify	
CC	cells as belonging to the monocyte lineage. Cells containing these genes	
CC	can be used in active immunotherapy (or to stimulate production of a	
CC	population of antigen-specific effector cells) and vectors containing	
CC	them are used in gene therapy. Co-administration of tumour antigens and	
CC	APC-associated costimulatory factors ensures adequate antigen	
CC	presentation to endogenous APCs and upregulates the APCs for the	

CC		presentation of co-stimulatory signals, migration to T cell-rich sites,
CC		secretion of T cell growth factors and secretion of chemokines for
.CC		recruitment of immune effector cells
XX		
SQ	Sequence 10 BP; 2 A; 0 C; 7 G; 1 T; 0 U; 0 Other;	
OY	Query Match Best Local Similarity 99.0%; Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;	Score 8.4; DB 1; Length 10; Pred. No. 53;
		1028 AGAGGTGGG 1037
DB	1 AGAGGTGGG 10	
RESULT 69		
AAZ77834/C		
ID	AAZ77834 standard; DNA; 10 BP.	
XX		
AC	AAZ77834;	
XX		
DT	10-APR-2000 (first entry)	
XX		
DE	Human dendritic cell SAGE tag. SEQ ID NO:262.	
XX		
KW	SAGE tag; serial analysis of gene expression; antigen-presenting cell;	
KM	APC; monocyte-derived dendritic cell; differential gene expression;	
KW	immunostimulatory cofactor; costimulatory factor; CTL;	
MW	cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; se.	
XX		
OS	Homo sapiens.	
XX		
PN	W03965924-A2.	
XX		
PD	23-DEC-1999.	
PF	18-JUN-1999; 99WO-US013800.	
XX		
PR	19-JUN-1998; 98US-0089833P.	
PR	19-JUN-1998; 98US-0089844P.	
PR	19-JUN-1998; 98US-0089853P.	
PR	19-JUN-1998; 98US-0089878P.	
PR	19-JUN-1998; 98US-0089912P.	
PR	19-JUN-1998; 98US-0089929P.	
PR	19-JUN-1998; 98US-0089933P.	
PR	19-JUN-1998; 98US-0089934P.	
PR	19-JUN-1998; 98US-0089957P.	
PR	19-JUN-1998; 98US-0089959P.	
PR	19-JUN-1998; 98US-0090000P.	
PR	19-JUN-1998; 98US-0090035P.	
PR	19-JUN-1998; 98US-0090036P.	
PR	19-JUN-1998; 98US-0090039P.	
PR	19-JUN-1998; 98US-0090040P.	
PR	19-JUN-1998; 98US-0090041P.	
PR	19-JUN-1998; 98US-0090042P.	
PR	19-JUN-1998; 98US-0090043P.	
PR	19-JUN-1998; 98US-0090044P.	
PR	19-JUN-1998; 98US-0090045P.	
PR	19-JUN-1998; 98US-0090047P.	
PR	19-JUN-1998; 98US-0090048P.	
PR	19-JUN-1998; 98US-0090072P.	
PR	19-JUN-1998; 98US-0090076P.	
PR	19-JUN-1998; 98US-0090077P.	
PR	19-JUN-1998; 98US-0090078P.	
PR	19-JUN-1998; 98US-0090079P.	
PR	19-JUN-1998; 98US-0090080P.	
PR	08-DEC-1998; 98US-0111715P.	
XX		
PA	(GENZ) GENZYME CORP.	
PA	(ROBE/) ROBERTS B L.	
PA	(SHAN/) SHANKARA S.	
XX		
PI	Roberts BL, Shankara S;	

XX WPI; 2000-106077/09.
 XX Isolated polynucleotides differentially expressed in antigen-presenting
 PT cells, useful in gene vaccines against cancer.
 XX
 PS Claim 1; Page 71; 130pp; English.
 XX
 CC Sequences AA277573-279709 represent SAGE (serial analysis of gene
 CC expression) tags used to identify mRNA transcripts encoding
 CC immunostimulatory cofactor proteins which are preferentially or
 CC differentially expressed in monocyte-derived dendritic cells compared
 CC with monocytes. Some of the transcripts correspond to known genes or ESTs
 CC (expressed sequence tags) which were previously unknown to be
 CC preferentially or differentially expressed in dendritic cells, while
 CC other transcripts correspond to novel genes. Antigen-presenting cell
 CC (APC)-associated costimulatory factors play an important role in the
 CC activation of the cytotoxic immune response, particularly against tumour
 CC cells. Tumour antigen presentation via the MHC (major histocompatibility
 CC complex) and subsequent recognition by T-cell receptors is alone
 CC insufficient to activate a robust cytotoxic immune response that can lyse
 CC the tumour cells. Immunostimulatory cofactors also being required for
 CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
 CC sequences identified using the SAGE tags have several potential uses.
 CC They may be used in vaccines to induce an immune response, particularly
 CC against a tumour antigen; to modulate the genotype of an APC; to screen
 CC for agents that modulate expression of differentially expressed genes in
 CC an APC; and as hybridisation probes/amplification primers for the
 CC diagnosis, prognosis and monitoring of diseases related to abnormal
 CC expression of these genes. Detection of the dendritic cell differentially
 CC expressed genes, or of their encoded proteins, can be used to identify
 CC cells as belonging to the monocyte lineage. Cells containing these genes
 CC can be used in active immunotherapy (or to stimulate production of a
 CC population of antigen-specific effector cells) and vectors containing
 CC them are used in gene therapy. Co-administration of tumour antigens and
 CC APC-associated costimulatory factors ensures adequate antigen
 CC presentation to endogenous APCs and upregulates the APCs for the
 CC presentation of co-stimulatory signals, migration to T cell-rich sites,
 CC secretion of T cell growth factors and secretion of chemokines for
 CC recruitment of immune effector cells
 CC
 XX
 SQ Sequence 10 BP; 1 A; 2 C; 4 G; 3 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 53;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1022 TGCCCAAGAA 1031
 Db 10 TGCCCAAGCA 1
 RESULT 70
 AA278009/c
 ID AA278009 standard; DNA; 10 BP.
 XX
 AC AA278009;
 XX
 DT 10-APR-2000 (first entry)
 XX
 DE Human dendritic cell SAGE tag, SEQ ID NO:437.
 XX
 KW SAGE tag; serial analysis of gene expression; antigen-presenting cell;
 KW APC; monocyte-derived dendritic cell; differential gene expression;
 KW immunostimulatory cofactor; costimulatory factor; CTL;
 KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
 XX
 OS Homo sapiens.
 XX
 PN MO9965924-A2.
 XX
 PD 23-DEC-1999.
 XX

PF 18-JUN-1999; 99MO-US013800.
 XX
 PR 19-JUN-1998; 98US-0089833P.
 PR 19-JUN-1998; 98US-0089844P.
 PR 19-JUN-1998; 98US-0089853P.
 PR 19-JUN-1998; 98US-0089878P.
 PR 19-JUN-1998; 98US-0089911P.
 PR 19-JUN-1998; 98US-0089922P.
 PR 19-JUN-1998; 98US-0089933P.
 PR 19-JUN-1998; 98US-0089944P.
 PR 19-JUN-1998; 98US-0089977P.
 PR 19-JUN-1998; 98US-0089997P.
 PR 19-JUN-1998; 98US-0090000P.
 PR 19-JUN-1998; 98US-0090003P.
 PR 19-JUN-1998; 98US-0090035P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090041P.
 PR 19-JUN-1998; 98US-0090042P.
 PR 19-JUN-1998; 98US-0090043P.
 PR 19-JUN-1998; 98US-0090044P.
 PR 19-JUN-1998; 98US-0090045P.
 PR 19-JUN-1998; 98US-0090047P.
 PR 19-JUN-1998; 98US-0090048P.
 PR 19-JUN-1998; 98US-0090072P.
 PR 19-JUN-1998; 98US-0090076P.
 PR 19-JUN-1998; 98US-0090077P.
 PR 19-JUN-1998; 98US-0090078P.
 PR 19-JUN-1998; 98US-0090079P.
 PR 19-JUN-1998; 98US-0090080P.
 PR 08-DEC-1998; 98US-0111715P.
 XX
 PA (GENZ) GENZYME CORP.
 PA (ROBE) ROBERTS B. L.
 PA (SHAN) SHANKARA S.
 XX
 PI Roberts BL, Shankara S;
 XX
 DR WPI; 2000-106077/09.
 XX
 PT Isolated polynucleotides differentially expressed in antigen-presenting
 PT cells, useful in gene vaccines against cancer.
 XX
 PS Claim 1; Page 77; 130pp; English.
 XX
 CC Sequences AA277573-279709 represent SAGE (serial analysis of gene
 CC expression) tags used to identify mRNA transcripts encoding
 CC immunostimulatory cofactor proteins which are preferentially or
 CC differentially expressed in monocyte-derived dendritic cells compared
 CC with monocytes. Some of the transcripts correspond to known genes or ESTs
 CC (expressed sequence tags) which were previously unknown to be
 CC preferentially or differentially expressed in dendritic cells, while
 CC other transcripts correspond to novel genes. Antigen-presenting cell
 CC (APC)-associated costimulatory factors play an important role in the
 CC activation of the cytotoxic immune response, particularly against tumour
 CC cells. Tumour antigen presentation via the MHC (major histocompatibility
 CC complex) and subsequent recognition by T-cell receptors is alone
 CC insufficient to activate a robust cytotoxic immune response that can lyse
 CC the tumour cells. Immunostimulatory cofactors also being required for
 CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
 CC sequences identified using the SAGE tags have several potential uses.
 CC They may be used in vaccines to induce an immune response, particularly
 CC against a tumour antigen; to modulate the genotype of an APC; to screen
 CC for agents that modulate expression of differentially expressed genes in
 CC an APC; and as hybridisation probes/amplification primers for the
 CC diagnosis, prognosis and monitoring of diseases related to abnormal
 CC expression of these genes. Detection of the dendritic cell differentially
 CC expressed genes, or of their encoded proteins, can be used to identify
 CC cells as belonging to the monocyte lineage. Cells containing these genes
 CC can be used in active immunotherapy (or to stimulate production of a
 CC population of antigen-specific effector cells) and vectors containing
 CC them are used in gene therapy. Co-administration of tumour antigens and
 CC APC-associated costimulatory factors ensures adequate antigen

CC presentation to endogenous APCs and upregulates the APCs for the
CC presentation of co-stimulatory signals, migration to T cell-rich sites,
CC secretion of T cell growth factors and secretion of chemokines for
CC recruitment of immune effector cells
XX
SQ Sequence 10 BP; 1 A; 5 C; 1 G; 3 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1027 AAGAGGCTGG 1036
||| |||||
Db 10 AAGCAGCTCG 1
RESULT 71
AAZ84938
ID AAZ84938 standard; DNA; 10 BP.
XX
AC AAZ84938;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell downregulated transcript tag #4172.
XX
KM Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KM antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN MO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
PS Claim 1; Page 170; 219pp; English.
XX
CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
CC to AAZ86677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in

CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are produced to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
SQ Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1023 GCCCAGAG 1032
||| |||||
Db 1 GCACAGAG 10
RESULT 72
AAZ85708/c
ID AAZ85708 standard; DNA; 10 BP.
XX
AC AAZ85708;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell downregulated transcript tag #4942.
XX
KM Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KM antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN MO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
PS Claim 1; Page 190; 219pp; English.
XX
CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
CC to AAZ86677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),

CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines. For diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
CC
SQ Sequence 10 BP; 0 A; 3 C; 4 G; 3 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1023 GCCCAGAG 1032
Db 10 GCCCAGCAG 1
RESULT 73
AAZ81181/c
ID AAZ81181 standard; DNA; 10 BP.
XX
AC AAZ81181;
XX
DT 07-APR-2000 (first entry)
XX
DB Metastatic breast tumour cell upregulated transcript tag #415.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KM antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN WO965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
PS Claim 1; Page 69; 219pp; English.
XX
CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
CC to AAZ86677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from

CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines. For diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
CC
SQ Sequence 10 BP; 1 A; 1 C; 4 G; 4 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1021 CTGCCAGAG 1030
Db 10 CTGCCAGAA 1
RESULT 74
AAZ80869/c
ID AAZ80869 standard; DNA; 10 BP.
XX
AC AAZ80869;
XX
DT 07-APR-2000 (first entry)
XX
XX Metastatic breast tumour cell upregulated transcript tag #103.
DE
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KM antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN WO965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
PS Claim 1; Page 61; 219pp; English.
XX
CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
CC to AAZ86677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.

CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
SQ Sequence 10 BP; 0 A; 7 C; 0 G; 3 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAAGTGGG 1037
Db 10 AGAAGGGGG 1
|||||
10 AGAAGGGGG 1

RESULT 75
AAZ79893/C
ID AAZ79893 standard; DNA; 10 BP.
XX
AC AAZ79893;
XX
DT 10-Apr-2000 (first entry)
XX
DE Human dendritic cell preferentially expressed SAGE tag, SEQ ID NO:184.
XX
KW SAGE tag; serial analysis of gene expression; diagnosis;
KW differential gene expression; characterisation; targeted expression;
KW tumour; cancer; immunotherapy; ss.
XX
OS Homo sapiens.
XX
PN MO966303-A2.
PD 23-Dec-1999.
XX
PF 17-JUN-1999; 99WO-US013820.
XX
PR 19-JUN-1998; 98US-0089833P.
PR 19-JUN-1998; 98US-0089844P.
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089878P.
PR 19-JUN-1998; 98US-008991P.
PR 19-JUN-1998; 98US-008992P.
PR 19-JUN-1998; 98US-008993P.
PR 19-JUN-1998; 98US-0089939P.
PR 19-JUN-1998; 98US-008997P.
PR 19-JUN-1998; 98US-008999P.
PR 19-JUN-1998; 98US-009000P.
PR 19-JUN-1998; 98US-009003P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-009004P.
PR 19-JUN-1998; 98US-0090041P.
PR 19-JUN-1998; 98US-0090042P.
PR 19-JUN-1998; 98US-0090043P.
PR 19-JUN-1998; 98US-0090044P.
PR 19-JUN-1998; 98US-0090045P.
PR 19-JUN-1998; 98US-0090047P.
PR 19-JUN-1998; 98US-0090048P.
PR 19-JUN-1998; 98US-0090072P.
PR 19-JUN-1998; 98US-0090076P.
PR 19-JUN-1998; 98US-0090077P.
PR 19-JUN-1998; 98US-0090078P.
PR 19-JUN-1998; 98US-0090079P.

PR 19-JUN-1998; 98US-0090080P.
PR 08-Dec-1998; 98US-0111715P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI, 2000-106132/09.
XX
PT New polynucleotide useful in cancer immunotherapy.
XX
PS Claim 1; Page 62; 97pp; English.

CC Sequences AAZ79710-279916 represent SAGE (serial analysis of gene
CC expression) tags used to identify mRNA transcripts which are
CC differentially expressed in a variety of normal or malignant cell types.
CC Some of the transcripts correspond to known genes or ESTs (expressed
CC sequence tags) which were previously unknown to be preferentially or
CC differentially expressed in that particular cell type, while other
CC transcripts correspond to novel genes. The invention also provides a
CC nucleotide comprising a promoter sequence derived from one of the
CC differentially expressed genes, which may optionally be operably linked
CC to a foreign nucleotide sequence, and gene delivery vehicles and host
CC cells comprising the polynucleotides of the invention. A nucleotide
CC comprising sequences AAZ79710-279916 may be used in diagnostic procedures
CC to characterise a cell of a specific tissue type and to determine whether
CC it is normal or malignant. They may be used to screen for agents that
CC modulate expression of differentially expressed genes compound. The
CC promoter/foreign gene construct of the invention may be used for
CC targeted expression of the foreign gene in a particular cell type. For
CC example, a promoter derived from a gene preferentially expressed in
CC dendritic cells (antigen-presenting cells, or APCs), may be operably
CC linked to a sequence encoding an immunostimulatory molecule and a
CC sequence encoding an antigen. Such a construct could be transduced into
CC APCs and would be useful for inducing an immune response by educating
CC immune effector cells in vivo, or in cancer immunotherapy
XX
SQ Sequence 10 BP; 1 A; 2 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1022 TGCCCAAGAA 1031
Db 10 TGCCCAAGCA 1
|||||
10 TGCCCAAGCA 1

RESULT 76
AAA73656
ID AAA73656 standard; DNA; 10 BP.
XX
AC AAA73656;
XX
DT 30-JAN-2001 (first entry)
XX
DE Probe #25 for sequencing by hybridisation.
XX
KW Nucleic acid sequencing; sequencing by hybridisation; SBH; probe; ss.
XX
OS Synthetic.
XX
PN WO200040758-A2.
PD 13-JUL-2000.
XX
PF 06-JAN-2000; 2000MO-US000458.
XX
PR 06-JAN-1999; 99US-0115284P.
XX
PA (HYSE-) HYSEQ INC.

XX Drmanac R, Drmanac S, Kita D, Cooke C, Xu C;
XX WPI; 2000-475839/41.
XX Identifying one or more sequences of a target nucleic acid (NA), useful
XX for parallel analyses, comprises contacting the NA with a set of pools of
XX probes comprising mixture of probes with different information regions.
XX
XX Disclosure; Page 53; 196pp; English.
XX
XX The present sequence is a probe used to demonstrate the method of the
XX invention, which is concerned with the use of pools of probes to enable
XX sequencing by hybridisation, a process known as SBH. Overlapping probes
XX are used which allows the identification of sequences longer than the
XX probe length, and either the target nucleic acid or the probe is
XX labelled. The method of the invention is useful for assembling sequences
XX and in parallel analyses
XX
SQ Sequence 10 BP; 2 A; 5 C; 1 G; 2 T; 0 U; 0 Other;
SQ
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 1020 TCTGCCCAAG 1029
1 TCTCCCAAG 10
DB
RESULT 77
AAH63873
ID AAH63873 standard; cDNA; 10 BP.
XX
AC AAH63873;
XX
DT 20-SEP-2001 (first entry)
XX
DE Human ubiquitously expressed transcriptome sequence SEQ ID NO: 713.
XX
XX Human; transcriptome; gene expression pattern; cancer; drug screening;
XX cancer diagnosis; cell specific gene expression; ss.
XX
XX Homo sapiens.
XX
XX WO200138577-A2.
XX
XX 31-MAY-2001.
XX
XX 21-NOV-2000; 2000WO-US031922.
XX
XX 24-NOV-1999; 99US-00448480.
XX
XX (UYJO) UNIV JOHNS HOPKINS.
XX
XX Velculescu VE, Vogelstein B, Kinzler KW;
XX WPI; 2001-367706/38.
XX
XX New isolated polynucleotides, useful for identifying specific cell type,
XX such as cancer cell, comprises transcripts expressed in particular
XX cell types.
XX
PS Claim 13; Page 55; 94pp; English.
XX
XX The present invention describes a method of identifying the type of cell
XX in a sample, involving determining which of the sequences AAH63161-
XX AAH64724 is expressed by the cell. The transcripts described in the
XX invention are cell-type specific, cancer specific or ubiquitously
XX expressed in humans. They can also be used to screen for drugs, reduce
XX cancer specific gene expression, standardise expression and restore the
XX function of a diseased cell or tissue. The present sequence is one of the
XX transcripts described in the exemplification of the invention

XX SQ Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
SQ
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 1023 GCCCAAGAG 1032
1 GCACAGAG 10
DB
RESULT 78
AAF43792/C
ID AAF43792 standard; DNA; 10 BP.
XX
AC AAF43792;
XX
DT 23-MAR-2001 (first entry)
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:11931.
XX
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
XX nor previously assigned open reading frame; nonannotated ORF; SAGE;
XX serial analysis of gene expression; antifungal; tag; identification;
XX linker; PCR primer; de.
XX
XX Saccharomyces cerevisiae.
XX
XX WO200077214-A2.
XX
XX 21-DEC-2000.
XX
XX 14-JUN-2000; 2000WO-US016223.
XX
XX 16-JUN-1999; 99US-00335032.
XX
XX (UYJO) UNIV JOHNS HOPKINS.
XX
XX Velculescu V, Vogelstein B, Kinzler K;
XX WPI; 2001-061874/07.
XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
XX gene expression (SAGE) tags, useful for studying, monitoring and
XX affecting phases of the cell cycle.
XX
XX Example; Page 376; 419pp; English.
XX
XX The present invention describes an isolated DNA molecule comprising a
XX coding sequence of a yeast gene selected from a group of 745 NORF (not
XX previously assigned open reading frame; or nonannotated ORF) genes
XX comprising a SAGE (serial analysis of gene expression) tag. Also
XX described are: (1) a method (M1) of using NORF genes to affect the cell
XX cycle comprising administering a NORF gene whose expression varies by at
XX least 10% between any two phases of the cell cycle selected from log
XX phase, S phase and G2/M; (2) a method (M2) for screening candidate
XX antifungal drugs comprising: (a) contacting a test substance with a yeast
XX cell; and (b) monitoring expression of a NORF gene whose expression
XX varies as in M1, where a test substance which modifies the expression of
XX the yeast gene is a candidate antifungal drug; (3) a method (M3) for
XX identifying human genes which are involved in cell cycle progression
XX comprising contacting human DNA with a probe which comprises at least 10
XX contiguous nucleotides of a NORF gene whose expression varies as in M1;
XX and (4) a method (M4) for identifying a candidate drug as a member of a
XX class of drugs having a characteristic effect on gene expression in a
XX yeast cell comprising contacting a yeast cell with a candidate drug and
XX monitoring expression in the yeast cell of at least 1 NORF gene whose
XX expression is affected by the class of drugs. The NORF genes may be used
XX to study, monitor and affect phases of the cell cycle, the differentially
XX expressed genes may be used as markers of phases of the cell cycle. The
XX methods may be used to identify candidate drugs which affect the cell
XX cycle and for identification of antifungal drugs. AAF33268 to AAF44064

CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP; 3 A; 0 C; 4 G; 3 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1019 TTCTGCCCAA 1028
DB 10 TTCTACCCAA 1
RESULT 79
ID AAF34723 standard; DNA; 10 BP.
XX AAF34723;
XX
AC AAF34723;
XX
DT 23-MAR-2001 (first entry)
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:1462.
XX
KM Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM not previously assigned open reading frame; nonannotated ORF; SAGE;
KM serial analysis of gene expression; antifungal; tag; identification;
KM linker; PCR primer; ds.
XX
OS Saccharomyces cerevisiae.
XX
PN MO200077214-A2.
XX
PD 21-DEC-2000.
XX
PF 14-JUN-2000; 2000MO-US016223.
XX
PR 16-JUN-1999; 99US-00335032.
XX
PA (UYJO) UNIV JOHNS HOPKINS.
XX
PI Velculescu V, Vogelstein B, Kinzler K;
XX
DR WPI; 2001-061874/07.
XX
PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
PS Example; Page 52; 419pp; English.
XX
CC The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially

CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP; 4 A; 1 C; 3 G; 2 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1025 CCAAGAAAGT 1034
DB 1 CTAAGAAAGT 10
RESULT 80
ID AAF38664 standard; DNA; 10 BP.
XX AAF38664;
XX
AC AAF38664;
XX
DT 23-MAR-2001 (first entry)
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5403.
XX
KM Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM not previously assigned open reading frame; nonannotated ORF; SAGE;
KM serial analysis of gene expression; antifungal; tag; identification;
KM linker; PCR primer; ds.
XX
OS Saccharomyces cerevisiae.
XX
PN MO200077214-A2.
XX
PD 21-DEC-2000.
XX
PF 14-JUN-2000; 2000MO-US016223.
XX
PR 16-JUN-1999; 99US-00335032.
XX
PA (UYJO) UNIV JOHNS HOPKINS.
XX
PI Velculescu V, Vogelstein B, Kinzler K;
XX
DR WPI; 2001-061874/07.
XX
PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
PS Example; Page 193; 419pp; English.
XX
CC The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and

CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX

SO Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;

Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1027 AAGNAGGTGG 1036
Db 1 AACNAGGTGG 10
|||||

RESULT 81
AAAF37520
ID AAF37520 standard; DNA; 10 BP.

AC AAF37520;

XX 23-MAR-2001 (first entry)

DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:4259.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM not previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KM linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

PN MO200077214-A2.

XX 21-DEC-2000.

PF 14-JUN-2000; 2000MO-US016223.

PR 16-JUN-1999; 99US-00335032.

XX (UYJO) UNIV JOHNS HOPKINS.

PA Velculescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.

XX Example; Page 152; 419pp; English.

CC The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;

CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX

SO Sequence 10 BP; 3 A; 3 C; 3 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;

Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1021 CTGCCCAAGA 1030
Db 1 CTGCCCAAGA 10
|||||

RESULT 82
AAAF37547
ID AAF37547 standard; DNA; 10 BP.

AC AAF37547;

XX 23-MAR-2001 (first entry)

DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:4286.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM not previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KM linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

PN MO200077214-A2.

XX 21-DEC-2000.

PF 14-JUN-2000; 2000MO-US016223.

PR 16-JUN-1999; 99US-00335032.

XX (UYJO) UNIV JOHNS HOPKINS.

PA Velculescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.

XX Example; Page 153; 419pp; English.

CC The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for

CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP; 2 A; 5 C; 1 G; 2 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1018 CTTGCGCCA 1027
DB 1 CTTGCGCCA 10
RESULT 83
AAF40919/c
ID AAF40919 standard; DNA; 10 BP.
XX
AC AAF40919;
XX
DT 23-MAR-2001 (first entry)
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:7658.
XX
KM Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM not previously assigned open reading frame; nonannotated ORF; SAGE;
KM serial analysis of gene expression; antifungal; tag; identification;
KM linker; PCR primer; ds.
XX
OS Saccharomyces cerevisiae.
XX
PN WO200077214-A2.
XX
PD 21-DEC-2000.
XX
PF 14-JUN-2000; 2000WO-US016223.
XX
PR 16-JUN-1999; 99US-00335032.
XX
PA (UYJO) UNIV JOHNS HOPKINS.
XX
PI Velculescu V, Vogelstein B, Kinzler K;
XX
DR WPI; 2001-061874/07.
XX
PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
PS Example; Page 273; 419pp; English.
XX
XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast

CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP; 2 A; 5 C; 0 G; 3 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1028 AGAAGTGGG 1037
DB 10 ATAAGTGGG 1
RESULT 84
AAF38830
ID AAF38830 standard; DNA; 10 BP.
XX
AC AAF38830;
XX
DT 23-MAR-2001 (first entry)
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5569.
XX
KM Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM not previously assigned open reading frame; nonannotated ORF; SAGE;
KM serial analysis of gene expression; antifungal; tag; identification;
KM linker; PCR primer; ds.
XX
OS Saccharomyces cerevisiae.
XX
PN WO200077214-A2.
XX
PD 21-DEC-2000.
XX
PF 14-JUN-2000; 2000WO-US016223.
XX
PR 16-JUN-1999; 99US-00335032.
XX
PA (UYJO) UNIV JOHNS HOPKINS.
XX
PI Velculescu V, Vogelstein B, Kinzler K;
XX
DR WPI; 2001-061874/07.
XX
PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
PS Example; Page 198; 419pp; English.
XX
XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at

CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX

SO Sequence 10 BP; 4 A; 0 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1027 AAGAGGTGG 1036

Db 1 AAGAGGTGG 10

RESULT 85

AAF41899

ID AAF41899 standard; DNA; 10 BP.

AC AAF41899;

DT 23-MAR-2001 (first entry)

XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8638.

XX Yeast; *Saccharomyces cerevisiae*; Characterisation; cell cycle; NORF;
KW not previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
XX linker; PCR primer; ds.

OS *Saccharomyces cerevisiae*.

PN WO200077214-A2.

XX 21-DEC-2000.

PF 14-JUN-2000; 2000WO-US016223.

PR 16-JUN-1999; 99US-00335032.

PA (UYJO) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.

XX Example; Page 308; 419pp; English.

CC The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes

CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX

SO Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1023 GCCCAAGAG 1032

Db 1 GACCAAGAG 10

RESULT 86

AAF40814

ID AAF40814 standard; DNA; 10 BP.

AC AAF40814;

DT 23-MAR-2001 (first entry)

XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:7553.

XX Yeast; *Saccharomyces cerevisiae*; Characterisation; cell cycle; NORF;
KW not previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
XX linker; PCR primer; ds.

OS *Saccharomyces cerevisiae*.

PN WO200077214-A2.

XX 21-DEC-2000.

PF 14-JUN-2000; 2000WO-US016223.

PR 16-JUN-1999; 99US-00335032.

PA (UYJO) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.

XX Example; Page 269; 419pp; English.

XX

CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 CC
 XX
 SQ Sequence 10 BP; 4 A; 2 C; 2 G; 2 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 53;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1025 CCAAGAGT 1034
 ID 1 CCAAGAGT 10
 Db ABL88354 standard; DNA; 10 BP.
 AC ABL88354;
 XX
 DT 20-MAY-2002 (first entry)
 XX
 DE Human CHRNAE gene polymorphism detection primer, SEQ ID NO:88.
 XX
 KM Human, cholinergic receptor nicotinic epsilon polypeptide; CHRNAE;
 KM chromosome 17p13-12; acetylcholine receptor; AChR;
 KM neuromuscular junction; skeletal muscle; postnatal development;
 KM congenital myasthenic syndrome; CMS; haplotyping; genotyping; haplotype;
 KM genetic variant; single nucleotide polymorphism; SNP; gene therapy;
 KM drug screening; primer extension; primer; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200198316-A2.
 XX
 PD 27-DEC-2001.
 XX
 PF 20-JUN-2001; 2001WO-US019835.
 XX
 PR 20-JUN-2000; 2000US-0212870P.
 XX
 PA (GENA-) GENAISSANCE PHARM INC.
 PT Amaro E, Bieganski KM, Kiem SE, Koshy B, Tangway DA;
 DR WPI; 2002-130787/17.
 XX
 PT Novel genetic variants of cholinergic receptor, nicotinic, epsilon

PT polypeptide gene useful in studying expression and function of the
 PT protein, and for screening drugs to treat diseases e.g. congenital
 PT myasthenic syndrome.
 XX
 PS Claim 19; Page 15; 104pp; English.
 XX
 CC The invention relates to a method for haplotyping the cholinergic
 CC receptor, nicotinic, epsilon polypeptide (CHRNAE) gene (ABL88268) of an
 CC individual, and also describes 17 novel polymorphic sites within the
 CC human CHRNAE gene. The CHRNAE gene is located on chromosome 17p13-12 and
 CC contains 12 exons which encode a 493 amino acid protein (ABA49112). The
 CC CHRNAE protein is one of the 5 subunits of mammalian acetylcholine
 CC receptors (AChRs) found at neuromuscular junctions in juveniles and
 CC adults, and is essential for the normal postnatal development of skeletal
 CC muscle. Mutations in the CHRNAE gene are associated with congenital
 CC myasthenic syndrome (CMS). CHRNAE gene sequences can therefore be used in
 CC gene therapy. The CHRNAE gene is also useful for studying the expression
 CC and function of CHRNAE, and in expressing CHRNAE protein for use in
 CC screening for candidate drugs to treat diseases related to CHRNAE. The
 CC method of the invention is useful for haplotyping the CHRNAE gene in an
 CC individual, and can also be used in pharmaceutical research to validate
 CC CHRNAE as a candidate target for, and in design of clinical trials of
 CC candidate drugs for, treating a specific condition drugs or disease
 CC predicted to be associated with CHRNAE activity such as CMS. Polymorphisms
 CC in the target region may be determined by the use of allele-specific
 CC oligonucleotides (ASOs; ABL88370-ABL88320) as probes and primers, and by
 CC primer extension using oligonucleotide primers comprising sequences
 CC ABL88371-ABL88354. The CHRNAE protein is useful for improving the
 CC efficiency and reliability of several steps in the discovery and
 CC development of drugs for treating diseases associated with CHRNAE
 CC activity, and may be used to screen drugs which target CHRNAE. Sequences
 CC ABL88321-ABL88354 represent sequences that are specifically claimed as
 CC components of primers used to detect polymorphisms in the CHRNAE gene by
 CC primer extension
 CC
 XX
 SQ Sequence 10 BP; 3 A; 1 C; 5 G; 1 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 53;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1028 AGAAGTGGG 1037
 ID 1 AGAAGTGGG 10
 Db ABL88354 standard; DNA; 10 BP.
 AC ABL88354;
 XX
 DT 08-MAY-2002 (first entry)
 XX
 DE Human ALA52 gene allele-specific oligonucleotide PCR primer #9.
 XX
 KM Human, aminolevulinic delta synthase 2; ALA52; haplotyping; primer; ss;
 KM haplotype pair; single nucleotide polymorphism; genotyping; antianemic;
 KM gene therapy; drug screening; X-linked sideroblastic anaemia; sequencing;
 KM hypochromic anaemia; probe; PCR.
 XX
 OS Homo sapiens.
 XX
 PN WO200210454-A2.
 XX
 PD 07-FEB-2002.
 XX
 PF 30-JUL-2001; 2001WO-US023914.
 XX
 PR 28-JUL-2000; 2000US-0221827P.
 XX
 PA (GENA-) GENAISSANCE PHARM INC.
 PT

PI Choi JY, Koshy B, Kilem S, Stephens JC;
XX WPI; 2002-188755/24.
XX
PT New isolated human aminolevulinate delta synthase 2 polynucleotide,
PT useful for therapeutic purposes, for studying the expression and function
PT of the polynucleotide, and for expressing the aminolevulinate protein.
XX
PS Claim 18; Page 14; 90pp; English.
XX
CC The invention relates to single nucleotide polymorphisms in the gene
CC encoding human aminolevulinate delta synthase 2 (ALAS2). A method for
CC haplotyping the ALAS2 gene in an individual comprises identifying the
CC nucleotide at one or more polymorphic sites and determining whether one
CC of the copies of the gene is defined by one of the ALAS2 haplotypes given
CC in the specification or whether both copies are defined by a haplotype
CC pair. This method is useful in genotyping, whereby all possible haplotype
CC pairs can be assigned to specific genotypes. An association between a
CC trait and a haplotype or haplotype pair of the ALAS2 gene can be
CC identified by comparing the frequency of the haplotype or haplotype pair
CC in a population exhibiting the trait with the frequency of the haplotype
CC or haplotype pair in a reference population, where a higher haplotype
CC frequency in the trait population indicates the trait is associated with
CC the haplotype or haplotype pair. ALAS2 and its corresponding DNA are used
CC for studying the expression and function of ALAS2, for use in screening
CC for candidate drugs to treat diseases related to ALAS2 activity, such as
CC X-linked sideroblastic anaemia and hypochromic anaemia. The sequences are
CC also useful for studying the effect of variation on the biological
CC activity of ALAS2 as well as on the binding affinity of candidate drugs
CC targeting ALAS2. Sequences ABL36963-ABL37027 represent allele-specific
CC oligonucleotide probes, sequencing primers and PCR primers used to detect
CC ALAS2 gene polymorphisms
XX
SQ Sequence 10 BP; 1 A; 3 C; 3 G; 3 T; 0 U; 0 Other;
Qy Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1023 GCCCAGAG 1032
Db 10 GCCCAGATG 1
RESULT 89
ABL39516
ID ABL39516 standard; DNA; 10 BP.
XX
AC ABL39516;
XX
DT 22-APR-2002 (first entry)
XX
DE Human E7FB primer-extension oligonucleotide 22.
XX
KW Human; electron-transfer flavoprotein beta polypeptide; E7FB;
KW electron acceptor; mitochondrial matrix; glutaric acidaemia type II;
KW novel polymorphic site; novel polymorphism; E7FB genotype; ss; GAT1;
KW E7FB haplotype; transgenic animal; primer; probe; chromosome 19q13;
KW primer-extension oligonucleotide; single nucleotide polymorphism; SNP.
XX
OS Homo sapiens.
XX
PN WO200202580-A2.
XX
PD 10-JAN-2002.
XX
PF 05-JUL-2001; 2001WO-US021306.
XX
PR 05-JUL-2000; 2000US-0215984P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Bentivegna SC, Bieglecki KM, Kazemi A, Koshy B;

XX
DR WPI; 2002-154722/20.
XX
PT Novel isolated human electron-transfer-flavoprotein, beta polynucleotide,
PT useful for therapeutic purposes, for studying the expression and function
PT of the polynucleotide, and for expressing the flavoprotein.
XX
PS Claim 19; Page 15; 143pp; English.
XX
CC The invention comprises DNA, cDNA and protein sequences of the human
CC electron-transfer flavoprotein, beta polypeptide (E7FB) gene (located on
CC chromosome 19q13.3-13.4). The invention specifically relates to the
CC identification of 27 novel polymorphic sites within the E7FB gene.
CC Electron-transfer flavoprotein (E7F) is an obligatory electron acceptor
CC for nine primary flavoprotein dehydrogenases and is located in the
CC mitochondrial matrix. E7F is composed of an alpha (E7FA) and a beta
CC (E7FB) subunit. Electrons accepted by E7F are transferred to the
CC mitochondrial respiratory chain by E7F dehydrogenases (E7FDHs).
CC Deficiency of E7F or E7FB leads to glutaric acidaemia type II (GAII).
CC Therefore E7FB is a pharmaceutically-important gene in the treatment of
CC GAII. The novel E7FB polymorphisms identified in the invention are useful
CC for genotyping and haplotyping the E7FB gene of an individual. The E7FB
CC protein and nucleic acids of the invention are useful for studying the
CC expression and function of E7FB in vivo. The E7FB protein and nucleic
CC acids are also useful for testing the efficacy of therapeutic agents and
CC compounds for glutaric acidaemia type II. The nucleic acids of the
CC invention are useful in the production of a transgenic animal expressing
CC the E7FB gene. Nucleic acids ABL39414-ABL39440 represent claimed E7FB
CC allele-specific probes. Nucleic acids ABL39441-ABL39494 represent claimed
CC E7FB allele-specific PCR primers. Nucleic acids ABL39495-ABL39548
CC represent claimed E7FB primer-extension oligonucleotides
XX
SQ Sequence 10 BP; 3 A; 5 C; 1 G; 1 T; 0 U; 0 Other;
Qy Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1021 CTCGCCAG 1030
Db 1 CTCGCCAGA 10
RESULT 90
ABL52253/c
ID ABL52253 standard; DNA; 10 BP.
XX
AC ABL52253;
XX
DT 15-JUL-2002 (first entry)
XX
DE Human PHK2 preferred oligonucleotide primer SEQ ID NO:40.
XX
KW Human; phosphorylase kinase gamma 2 (testis); PHK2; enzyme; SNP;
KW phosphorylase kinase gamma 2; single nucleotide polymorphism;
KW polymorphic; hepatocytic; gene therapy; glycogen storage disease;
KW liver cirrhosis; primer; ss.
XX
OS Homo sapiens.
XX
PN WO200194365-A2.
XX
PD 13-DEC-2001.
XX
PF 11-JUN-2001; 2001WO-US018814.
XX
PR 09-JUN-2000; 2000US-0210568P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Choi JY, Koshy B, Sanchis A, Sausker EA;
XX
DR WPI; 2002-404359/43.

XX	PT	New variants of phosphorylase kinase gamma 2 isogenes, useful for
XX	PT	improving efficiency and reliability in the development of drugs for
XX	PT	treating diseases e.g. liver cirrhosis.
XX	PS	
XX	PS	Claim 18; Page 14; 76pp; English.
XX	CC	The present invention describes an isolated polynucleotide (I) comprising
XX	CC	a nucleotide sequence which is a polymorphic variant of a reference
XX	CC	sequence for human phosphorylase kinase gamma2 (testis) (PHKG2) gene or
XX	CC	its fragment, or a polymorphic variant of a reference sequence for a
XX	CC	PHKG2 cDNA or its fragment. Also described is an isolated polypeptide
XX	CC	(II) comprising an amino acid sequence which is a polymorphic variant of
XX	CC	a reference sequence for PHKG2 protein or its fragment, where the
XX	CC	reference sequence comprises a sequence (see ABB09290) of 406 amino
XX	CC	acids, and the polymorphic variant comprises one or more variant amino
XX	CC	acids selected from glutamic acid at a position corresponding to amino
XX	CC	acid position 153 and tryptophan at position corresponding to amino acid
XX	CC	position 329. (I) has hepatotropic activity and can be used in gene
XX	CC	therapy. (II) is useful in screening for drugs targeting (II), by
XX	CC	contacting a PHKG2 polymorphic variant with a candidate agent and
XX	CC	assaying for binding activity. The identified candidate agents targeting
XX	CC	PHKG2, are useful for treating liver cirrhosis and glycogen storage
XX	CC	diseases. The present sequence represents a preferred oligonucleotide
XX	CC	primer for the PHKG2 gene, which is used in the exemplification of the
XX	CC	present invention
XX	SQ	Sequence 10 BP; 1 A; 7 C; 0 G; 2 T; 0 U; 0 Other;
XX		
XX	Query Match	42.0%; Score 8.4; DB 1; Length 10;
XX	Best Local Similarity	90.0%; Pred. No. 53;
XX	Matches	9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX		
QY	1028 AGAAGTGGG 1037	
Db	10 AGGAGCTGG 1	
XX	RESULT 91	
XX	ABL52252	
XX	ID ABL52252 standard; DNA; 10 BP.	
XX	XX	
XX	XX	ABL52252;
XX	XX	
XX	XX	15-JUN-2002 (first entry)
XX	DE	
XX	DE	Human PHKG2 preferred oligonucleotide primer SEQ ID NO:39.
XX	XX	
XX	KM	Human; phosphorylase kinase gamma 2 (testis); PHKG2; enzyme; SNF;
XX	KM	phosphorylase kinase gamma 2; single nucleotide polymorphism;
XX	KM	polymorphic; hepatotropic; gene therapy; glycogen storage disease;
XX	KM	liver cirrhosis; primer; ss.
XX	OS	
XX	OS	Homo sapiens.
XX	PN	
XX	PN	WO200194365-A2.
XX	PD	
XX	PD	13-DEC-2001.
XX	PF	
XX	PF	11-JUN-2001; 2001WO-US018814.
XX	PR	
XX	PR	09-JUN-2000; 2000US-0210568P.
XX	XX	
XX	PA	(GENA-) GENA15SANCE PHARM INC.
XX	PI	
XX	PI	Choi JY, Koehy B, Sanchis A, Saubker EA;
XX	DR	
XX	DR	WPI; 2002-404359/43.
XX	PT	
XX	PT	New variants of phosphorylase kinase gamma 2 isogenes, useful for
XX	PT	improving efficiency and reliability in the development of drugs for
XX	PT	treating diseases e.g. liver cirrhosis.

PS Claim 18; Page 14; 76pp; English.

XX The present invention describes an isolated polynucleotide (I) comprising
CC a nucleotide sequence which is a polymorphic variant of a reference
CC sequence for human phosphorylase kinase gamma2 (testis) (PHKG2) gene or
CC its fragment, or a polymorphic variant of a reference sequence for a
CC PHKG2 cDNA or its fragment. Also described is an isolated polypeptide
CC (II) comprising an amino acid sequence which is a polymorphic variant of
CC a reference sequence for PHKG2 protein or its fragment, where the
CC reference sequence comprises a sequence (see ABB09290) of 406 amino
CC acids, and the polymorphic variant comprises one or more variant amino
CC acids selected from glutamic acid at a position corresponding to amino
CC acid position 153 and tryptophan at position corresponding to amino acid
CC position 329. (I) has hepatocytic activity and can be used in gene
CC therapy. (II) is useful in screening for drugs targeting (II), by
CC contacting a PHKG2 polymorphic variant with a candidate agent and
CC assaying for binding activity. The identified candidate agents targeting
CC PHKG2, are useful for treating liver cirrhosis and glycogen storage
CC diseases. The present sequence represents a preferred oligonucleotide
CC primer for the PHKG2 gene, which is used in the exemplification of the
CC present invention

SQ Sequence 10 BP; 2 A; 0 C; 7 G; 1 T; 0 U; 0 Other;

Query Match	Best Local Similarity	Score 8.4;	DB 1;	Length 10;
Matches 9;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0

OY 1028 AGAAGTGGG 1037
|||
Db 1 AGGAGGTGGG 10

RESULT 92
ID ABV78454/C
ABV78454 standard; CDNA; 10 BP.
AC ABV78454;
XX
DT 29-NOV-2002 (first entry)
DE Human transcription factor CA150 SAGE tag, SEQ ID NO:165.
XX
KW SAGE tag; serial analysis of gene expression; human; Th1 cell;
RW activated T cell; T lymphocyte; immune response; expression pattern;
XX preferential expression; immune disorder; ss.
OS Homo sapiens.
XX
PN JP2002186482-A.
XX
PD 02-JUL-2002.
XX
PE 19-DEC-2000; 2000JP-00385816.
XX
PR 19-DEC-2000; 2000JP-00385816.
PA (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.
XX
DR WPI; 2002-594261/64.
XX
PT Human activated Th1 and Th2 cell expression gene group, useful for the
FT diagnosis and treatment of Th1 and Th2-related diseases.
PS Claim 19; Page 11; 60pp; Japanese.

XX The invention relates to SAGE (serial analysis of gene expression) tags
CC representing groups of genes which are expressed in activated human Th1
CC and/or Th2 cells. The SAGE tags of this invention consist of a sequence
CC of 10 nucleotides located downstream of the 5'-CATC-3' sequence motif
CC lying nearest to the polyA region of cDNAs derived from a variety of
CC genes. These tags serve to uniquely identify each transcript and can thus
CC be used to analyse the pattern of gene expression in particular cell

CC types. The invention also relates to proteins encoded by the genes
CC expressed in Th1 and/or Th2 cells, antibodies against these proteins, and
CC inhibitors of the expression of groups of genes that are expressed in
CC either or both the two cell types. Groups of genes expressed in Th1
CC and/or Th2 cell types may be used for the diagnosis and treatment of Th1
CC and Th2-related disorders. Sequences ABV78390-ABV78560 are SAGE tags
CC representing 171 genes which are more highly expressed in Th1 cells
CC compared with Th2 cells
XX
SQ Sequence 10 BP; 3 A; 2 C; 3 G; 2 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1019 TTCTGCCCA 1028
Db 10 TTCTGCCCA 1
RESULT 93
ABV84246
ID ABV84246 standard; cDNA; 10 BP.
XX
AC ABV84246;
XX
DT 12-DEC-2002 (first entry)
XX
DE Human mitochondrial F0 complex ATP synthase-like EST SAGE tag #56.
XX
KW SAGE tag; serial analysis of gene expression; human; chronic hepatitis C;
KW CH; liver tissue; hepatocellular carcinoma; cancer; tumour; HCC;
KW expression pattern; differential expression; EST; expressed sequence tag;
KW ss.
XX
OS Homo sapiens.
OS
XX JP2002209591-A.
XX
PN 30-JUL-2002.
XX
PD 19-JAN-2001; 2001JP-00012328.
XX
PF 19-JAN-2001; 2001JP-00012328.
XX
PR 19-JAN-2001; 2001JP-00012328.
XX
PA (KAGA-) KAGAKU GIUTSU SHINKO JIGYODAN.
XX
XX WPI; 2002-631294/68.
DR
XX
XX Human chronic hepatitis C tissue expression exasperating gene group
PT comprises 100 high-ranking genes.
XX
PS Claim 1; Page 11; 139pp; Japanese.
XX
CC The invention relates to SAGE (serial analysis of gene expression) tags
CC representing groups of genes which are differentially expressed in human
CC chronic hepatitis C (CH) liver tissue or hepatitis C-induced
CC hepatocellular carcinoma (HCC) compared with normal human liver tissue.
CC The SAGE tags of this invention consist of a sequence of 10 nucleotides
CC located downstream of the 5'-CATG-3' sequence motif lying nearest to the
CC polyA region of cDNAs derived from a variety of genes. These tags serve
CC to uniquely identify each transcript and can thus be used to analyse the
CC pattern of gene expression in particular cell types. The invention also
CC relates to proteins encoded by the genes expressed in chronic hepatitis C
CC liver tissue or HCC, antibodies against these proteins, and inhibitors of
CC the expression of groups of genes that are overexpressed in chronic
CC hepatitis C liver tissue or HCC. Groups of genes differentially expressed
CC in chronic hepatitis C tissue or HCC may be used for the diagnosis and
CC treatment of these diseases. Such genes, inhibitors of their expression
CC or activity, and antibodies against the gene products may be used in the
CC development of drugs to treat chronic hepatitis C and/or HCC. Sequences
CC ABV84191-ABV84290 are SAGE tags representing the 100 most highly
CC expressed genes out of those genes which are overexpressed in chronic

CC hepatitis C liver tissue compared with normal liver tissue
XX
SQ Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1023 GCCCAGAG 1032
Db 1 GCCCAGAG 10
RESULT 94
ABK23703
ID ABK23703 standard; DNA; 10 BP.
XX
AC ABK23703;
XX
DT 09-APR-2002 (first entry)
XX
DE Transcript tag DNA sequence #292 induced or suppressed by N-myc.
XX
KW Myc-dependent downstream gene; neoplastic; cancer; growth; invasion;
KW spread; myc target; myc tag; SAGE; serial analysis of gene expression;
KW myc oncogene; N-myc; human neuroblastoma; cytosolic; ds.
XX
OS Homo sapiens.
XX
XX W0200185941-A2.
XX
PN 15-NOV-2001.
XX
PD 11-MAY-2001; 2001MO-NL000361.
XX
PF 11-MAY-2001; 2000EP-00201698.
XX
PR 11-MAY-2000; 2000EP-00201698.
XX
PR 29-JUN-2000; 2000EP-00202284.
XX
PA (UYAM-) UNIV AMSTERDAM ACAD ZIEKENHUIS BLIJ VAN.
XX
XX Versteeeg R, Caron HN;
XX
XX WPI; 2002-066603/09.
DR
XX
XX A new nucleic acid library of myc-dependent downstream genes capable of
PT supporting a neoplastic characteristic of cancer is useful to find new
PT therapies and diagnoses for cancer.
XX
PS Disclosure; Page 57; 69pp; English.
XX
CC The present invention relates to a nucleic acid library comprising myc-
CC dependent downstream genes or their functional fragments essentially
CC capable of supporting a neoplastic character of cancer such as growth,
CC invasion or spread. These myc target or tag sequences are identified by
CC SAGE (serial analysis of gene expression). The library is useful to find
CC new diagnoses and treatments for cancer. The invention is also useful to
CC enhance production of recombinant proteins in a production system with
CC high expression of endogenous or transfected myc oncogenes. ABK23412-
CC ABK23828 represent transcript tag DNA sequences that are activated or
CC repressed by N-myc in human neuroblastoma
XX
SQ Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1023 GCCCAGAG 1032
Db 1 GCCCAGAG 10
RESULT 95

ABN84506/c
ID ABN84506 standard; DNA; 10 BP.
XX
AC ABN84506;
XX
DT 21-OCT-2002 (first entry)
XX
DE Rat smooth muscle myosin heavy chain gene Carg2 motif.
XX
KM Smooth muscle; myosin; SM-MHC; rat; gene therapy; promoter; Carg2;
KM antiatherosclerotic; antiaesthetic; antiinflammatory; cardiac;
KM hypotensive; transgenic animal; ds.
XX
OS Rattus sp.
XX
PN MO200259270-A2.
XX
PD 01-AUG-2002.
XX
PF 24-JAN-2002; 2002MO-US002016.
XX
PR 24-JAN-2001; 2001US-0263811P.
XX
PA (OWEN/) OWENS G K.
XX (MANA/) MANABE I.
XX
PI Owens GK, Manabe I;
XX
XX WPI; 2002-599772/64.
XX
DR New smooth muscle myosin heavy chain promoter/enhancers, useful for
PT smooth muscle tissue-specific targeting and expression, or for genetic
PT engineering as a means to investigate smooth muscle cell physiology and
PT pathophysiology.
XX
PS Example 4; Page 56; 110pp; English.
XX
CC The present sequence is the Carg2 motif of the promoter/enhancer region
CC of the rat smooth muscle myosin heavy chain (SM-MHC) gene (see also
CC ABN84504). The present invention provides polynucleotide sequences which
CC confer to an operably linked polynucleotide cell-specific expression
CC within SM cells in vivo. These are derived from the rat or human SM-MHC
CC gene. In some, the Carg2 or the intron Carg2 motif is mutated to confer
CC subtype specificity. For example, the present sequence is preferably
CC altered to the sequence given in ABN84507 by site-directed mutagenesis.
CC The heterologous polynucleotide linked to the SM-MHC promoter preferably
CC encodes a toxin, a prodrug-converting enzyme, a tumour suppressor, a
CC sensitising agent, an apoptotic factor, an angiogenesis inhibitor, a
CC cytokine or an immunogenic antigen, or is an antisense polynucleotide or
CC a catalytic polynucleotide. Expression vectors, e.g. retroviral, adeno-
CC associated viral and adenoviral vectors, host cells and transgenic
CC animals are provided. The SM-MHC promoter/enhancer provides for specific
CC expression in SM cells of the bladder, gastrointestinal tract or urinary
CC tract, aorta artery, carotid artery, pulmonary artery, vena cava vein or
CC vascular SM. The compositions and methods for targeted gene delivery and
CC expression are useful in treating diseases associated with abnormal
CC function of SM cells, e.g. systemic hypertension, pulmonary hypertension,
CC atherosclerosis, asthma, coronary artery disease, gastrointestinal
CC abnormalities, reproductive dysfunction or chronic bronchitis
XX
SQ Sequence 10 BP; 0 A; 2 C; 3 G; 5 T; 0 U; 0 Other;

ACA60848 standard; DNA; 10 BP.
XX
AC ACA60848;
XX
DT 03-JUL-2003 (first entry)
XX
DE Rat smooth muscle myosin heavy chain wild-type Carg2 motif.
XX
KM Rat; ds; smooth muscle; myosin heavy chain; SM-MHC; Carg2; hypotensive;
KM antiatherosclerotic; antiaesthetic; antiinflammatory; promoter; enhancer;
KM systemic hypertension; pulmonary hypertension; atherosclerosis; asthma;
KM coronary artery disease; gastrointestinal abnormality; stem cell;
KM reproductive dysfunction; chronic bronchitis; tissue regeneration.
XX
OS Rattus sp.
XX
XX US2003017549-A1.
XX
PN 23-JAN-2003.
XX
PD 24-JAN-2002; 2002US-00057726.
XX
PF 16-JAN-1998; 98US-0071300P.
XX 15-JAN-1999; 99MO-US001038.
XX 13-JUL-2000; 2000US-00600319.
XX 24-JAN-2001; 2001US-0263811P.
XX
PA (OWEN/) OWENS G K.
XX
XX Owens GK, Manabe I;
XX
XX WPI; 2002-599772/64.
XX
DR New smooth muscle myosin heavy chain promoter/enhancers, useful for
PT smooth muscle tissue-specific targeting and expression, or for genetic
PT engineering as a means to investigate smooth muscle cell physiology and
PT pathophysiology.
XX
PS Example 4; Page 23; 75pp; English.
XX
XX The invention relates to an isolated, synthetic, or recombinant
XX polynucleotide comprising a smooth muscle myosin heavy chain (SM-MHC)
XX promoter/enhancer sequence capable of conferring smooth muscle specific
XX expression in vivo. Also included are expression vectors comprising the
XX SM-MHC promoter/enhancers, a genetically engineered host cell comprising
XX the vector, a transgenic non-human animal comprising the SM-MHC promoter/
XX enhancer and screening a compound that modulates the activity of an SM-
XX MHC promoter/enhancer. The SM-MHC promoter/enhancer is useful for
XX expressing a polynucleotide (a reporter gene or polynucleotide encoding a
XX therapeutic protein) in a smooth muscle cell in vivo. The smooth muscle
XX cell is in a coronary artery, aorta, airway smooth muscle, or pulmonary
XX vascular smooth muscle, or bladder smooth muscle, gastrointestinal tract
XX smooth muscle, urinary tract smooth muscle, or gastrointestinal tract
XX smooth muscle, or small branching artery smooth muscle. The SM-MHC
XX promoter/enhancer further comprises a minimal thymidine kinase (TK)
XX promoter. The targeted delivery of the SM-MHC promoter/enhancer is useful
XX for development of animal models of human disease to assist in
XX development of new therapeutic targets or development of animal models
XX for purpose of screening new drugs/therapies. The SM-MHC promoter/
XX enhancer facilitates targeted gene delivery to express a gene of interest
XX within an SMC. Targeted gene delivery and expression of the SM-MHC
XX promoter/enhancer is useful for treating diseases associated with
XX abnormal function of SMC including systemic hypertension, pulmonary
XX hypertension, atherosclerosis, asthma, coronary artery disease,
XX gastrointestinal abnormalities, reproductive dysfunction and chronic
XX bronchitis. The SM-MHC promoter/enhancer and transfectant cells are useful
XX for identifying and selecting SMC derived from multi-potent stem cell
XX populations for purposes of tissue generation/regeneration for surgery
XX (e.g. for blood vessel, bladder, or gastrointestinal smooth muscle tissue
XX augmentation-reconstruction). The SM-MHC genes contain Carg2 motifs in
XX their promoter and first intron regions, these motifs are thought to be
XX responsible for smooth muscle cell subtype specific expression of SM-MHC.

RESULT 96
ACA60848/c

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1024 CCCAAGAAGG 1033
Db 10 CCCAAGAAGG 1

CC The present sequence is a rat SM-MHC wild-type CARG motif
XX Sequence 10 BP; 0 A; 2 C; 3 G; 5 T; 0 U; 0 Other;
SQ
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1024 CCCAAGAAGG 1033
|||||
Db 10 CCCAAAAAGG 1
RESULT 97
ABQ72900/C
ID ABQ72900 standard; DNA; 10 BP.
XX
AC ABQ72900;
XX
DT 06-SEP-2002 (first entry)
XX
DE Human GRM8 gene polymorphism detection primer, SEQ ID NO:104.
XX
KW Human; glutamate receptor metabotropic 8; GRM8; receptor;
KM chromosome 7q31.3-32.1; neurotransmission; glutamate-mediated;
KW Smith-Iemli-Oplitz syndrome; retinitis pigmentosa;
KW neuropathological disorder; neuroprotective; ophthalmological;
KW gene therapy; haplotyping; genotyping; haplotype; genetic variant;
KM single nucleotide polymorphism; SNP; drug screening; drug discovery;
KM primer extension; primer; ss.
XX
OS Homo sapiens.
XX
PN W0200238587-A2.
XX
PD 16-MAY-2002.
XX
PF 09-NOV-2001; 2001WO-US047325.
XX
PR 09-NOV-2000; 2000US-0247576P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Bieglecki KM, Chew A, Choi JY, Koshy B, Parks KE;
XX
XX WPI; 2002-519291/55.
XX
PT Genetic variants of Glutamate Receptor, Metabotropic 8 isogenes, useful
PT for improving efficiency and reliability in drug development for treating
PT neuropathological conditions and retinitis pigmentosa.
XX
XX Claim 17, Page 15; 110pp; English.
XX
XX The invention relates to a method for haplotyping the glutamate receptor,
CC metabotropic 8 (GRM8) gene (ABQ72798, ABQ72905) of an individual, and
CC also describes 21 novel polymorphic sites within the human GRM8 gene. The
CC GRM8 gene is located on chromosome 7q31.3-32.1 and contains 10 exons
CC which encode a 908 amino acid protein (ABB09564). GRM8 is involved in
CC glutamate-mediated neurotransmission, being a member of a subfamily of
CC metabotropic glutamate receptors that inhibit the activity of adenylylate
CC cyclase in response to glutamate stimulation. The chromosomal location of
CC the GRM8 gene encompasses regions linked to Smith-Iemli-Oplitz syndrome
CC and a form of retinitis pigmentosa. GRM8 nucleic acid sequences are
CC useful in studying the expression and function of GRM8, and in expressing
CC GRM8 protein for use in screening drugs for the treatment of GRM8-
CC associated diseases (e.g., neuropathological disorders, Smith-Iemli-Oplitz
CC syndrome and retinitis pigmentosa). GRM8 nucleic acids and proteins are
CC also useful in studying the effect of polymorphisms on the biological
CC activity of GRM8. Polymorphisms in the target region may be determined by
CC the use of allele-specific oligonucleotides (ASOs; ABQ72800-ABQ72862) as
CC probes and primers, and by primer extension using oligonucleotide primers
CC comprising sequences ABQ72863-ABQ72904. The method of the invention is
CC useful for haplotyping the GRM8 gene in populations and in individuals,

CC enabling decisions to be made as to whether GRM8 is a likely therapeutic
CC target for a disease of interest, and in the design of clinical trials of
CC candidate drugs for treating GRM8-associated disorders. In addition,
CC transgenic animals comprising a human GRM8 gene are useful for studying
CC the expression of GRM8 isogenes in vivo, for in vivo screening and
CC testing of drugs targeted to GRM8, and for testing the efficacy of
CC therapeutic agents and compounds for treating GRM8-associated conditions
CC in a biological system. Sequences ABQ72863-ABQ72904 represent sequences
CC that are specifically claimed as components of primers used to detect
CC polymorphisms in the GRM8 gene by primer extension
XX
XX Sequence 10 BP; 3 A; 1 C; 4 G; 2 T; 0 U; 0 Other;
SQ
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1018 CTTCTGCCCA 1027
|||||
Db 10 CTTCTGCCCA 1
RESULT 98
ABK96537/C
ID ABK96537 standard; DNA; 10 BP.
XX
AC ABK96537;
XX
DT 24-SEP-2002 (first entry)
XX
DE Human PLAU gene, primer extension primer 3' terminus #10.
XX
KW Human; ss; primer; Plasminogen activator; urokinase; PLAU; cancer;
KM cytosolic; serine protease; thrombolytic disorder; isogene; PCR;
KM pulmonary embolism; chromosome 10q24-qter; haplotype; genotype; SNP;
KM single nucleotide polymorphism; thrombolytic; gene therapy;
KM primer extension.
XX
OS Homo sapiens.
XX
PN W0200240503-A2.
XX
PD 23-MAY-2002.
XX
PF 14-NOV-2001; 2001WO-US044001.
XX
PR 17-NOV-2000; 2000US-0249703P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Anastasio AE, Bentivegna SC, Koshy B;
XX
XX WPI; 2002-519370/55.
XX
XX Genetic variants of Plasminogen activator, Urokinase (PLAU) isogenes,
PT useful for improving efficiency and reliability in drug development for
PT treating thrombolytic disorders and cancer.
XX
XX Claim 16, Page 14; 92pp; English.
XX
XX The invention relates to a polynucleotide comprising a first nucleotide
CC sequence (NS1) comprising a PLAU (plasminogen activator, urokinase, a
CC serine protease) isogene selected from isogenes 1-9 and 11-20 given in
CC the specification, where each isogene comprises the regions of the PLAU
CC gene or cDNA and is further defined by the corresponding sequence of
CC polymorphisms (defining single nucleotide polymorphisms, SNP). Also
CC included are methods of haplotyping/genotyping (and predicting the
CC haplotype/genotype of the PLAU gene of an individual, identifying an
CC association between a trait and at least one haplotype or haplotype pair
CC of the PLAU gene, an isolated oligonucleotide for detecting a
CC polymorphism in the PLAU gene, a recombinant non-human organism
CC transformed or transfected with the gene or cDNA, fragments of the
CC polynucleotides of at least 10 base pairs encompassing a polymorphic

CC site, an isolated polymorphic variant PLAU protein or fragment, an
CC isolated monoclonal antibody specific for PLAU, a computer system for
CC scoring and analysing polymorphism data for the PLAU gene and a genome
CC anthology for the PLAU gene. PLAU is useful in screening for drugs
CC targeting PLAU that are useful for treating thrombolytic disorders and
CC cancers. The methods are useful for improving the efficiency and
CC reliability of the discovery and development of drugs for treating
CC diseases associated with PLAU activity, in validating PLAU as a drug
CC target and in the design of clinical trials for treating a specific
CC condition of disease associated with PLAU activity. The antibody is
CC useful in diagnostic, prognostic and therapeutic methods. PLAU
CC polynucleotides are useful in studying the expression and function of
CC PLAU, and in expressing PLAU protein for use in screening for candidate
CC drugs to treat diseases related to PLAU activity. The gene for PLAU is
CC located on chromosome 10q24-qter. The present sequence is the 3' terminus
CC of an allele specific primer used to amplify PLAU polynucleotides with a
CC specific polymorphism using the technique of primer extension

XX
SQ Sequence 10 BP; 1 A; 3 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1022 TGCCCAAGAA 1031
|||
Db 10 TGCCCAAGAA 1

RESULT 99
ACF04526
ID ACF04526 standard; DNA; 10 BP.

XX ACF04526;

XX 04-DEC-2003 (first entry)

XX DE Stuffer sequence used in NA detection by mass spectrometry #9.

XX KM Mass spectrometry; nucleic acid sequence detection; stuffer sequence; ds.

XX OS Synthetic.

XX PN WO2003060163-A2.

XX XX 24-JUL-2003.

XX PD 30-DEC-2002; 2002WO-NL000872.

XX PF 28-DEC-2001; 2001EP-00205114.

XX PR (KEYG-) KEYGENE NV.

XX PA Van Eijk MJT, Van Schaik C;

XX PI WPI; 2003-598543/56.

XX DR
XX PS
XX PT Determining the presence or absence of target sequences in nucleic acid
XX samples, useful for e.g. genetic mapping or DNA fingerprinting, comprises
XX PT employing an oligonucleotide ligation assay in combination with mass
XX PT spectrometry.

XX XX Example 3; Page 27; 68pp; English.

XX PS The present invention relates to a method of determining the presence or
XX CC absence of at least one target sequence in a nucleic acid sample, which
XX CC comprises employing an oligonucleotide ligation assay in combination with
XX CC a detection method based upon molecular mass, preferably mass
XX CC spectrometry. The method is useful for high-throughput detection of a
XX CC multiplicity of target nucleotide sequences, for detecting polymorphisms
XX CC (preferably single nucleotide polymorphism), for transcript profiling,
XX CC for detecting quantitative abundance of target nucleic acid sequences,
XX CC for genetic mapping, gene discovery, marker-assisted selection, seed

CC quality control, hybrid selection, QTL mapping, bulked segregant
CC analysis, DNA fingerprinting and for disclosing information relating to
CC traits, disease resistance, yield, hybrid vigor, and/or gene function.
CC The set of oligonucleotide probes, which comprises a probe for each
CC allele of a single nucleotide polymorphism, is useful for determining the
CC presence or absence of at least one target sequence in a nucleic acid
CC sample. The present sequence is a stuffer sequence used in the
CC exemplification of the invention

XX
SQ Sequence 10 BP; 2 A; 0 C; 7 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1028 AGAAGGTGGG 1037
|||
Db 1 AGAAGGTGGG 10

RESULT 100
AD113685
ID AD113685 standard; DNA; 10 BP.

XX AD113685;

XX 22-APR-2004 (first entry)

XX DE Cytoplasmic tumour endothelial marker standard tag SEQ ID NO:60.

XX KM tumour endothelial marker; TEM; endothelial cell regulation;

XX KM neoangiogenesis inhibition; neoangiogenesis screening;

XX KM neoangiogenesis promotion; neoangiogenesis; tumour; wound healing;

XX KM cytoelastic; vulnereary; human; standard tag; ss.

XX OS Homo sapiens.

XX OS Synthetic.

XX PN WO2004005883-A2.

XX PD 15-JAN-2004.

XX PF 02-JUL-2003; 2003WO-US016250.

XX PR 02-JUL-2002; 2002US-0393023P.

XX PR 01-APR-2003; 2003US-0458964P.

XX PA (UYJO) UNIV JOHNS HOPKINS.

XX PI St Croix B, Kinzler KM, Vogelstein B;

XX DR WPI; 2004-142995/14.

XX PS Disclosure; SEQ ID NO 60; 113pp; English.

XX XX The present invention describes the use of tumour endothelial marker
XX CC (TEM) proteins for identifying a ligand involved in endothelial cell
XX CC regulation, inhibiting neoangiogenesis, screening for neoangiogenesis,
XX CC promoting neoangiogenesis, identifying candidate drugs for treating
XX CC tumours or promoting wound healing or identifying endothelial cells. Also
XX CC described: (1) identification of a ligand involved in endothelial cell
XX CC regulation; (2) inhibiting neoangiogenesis; (3) promoting neoangiogenesis
XX CC in a patient; (4) screening for neoangiogenesis in a patient; (5)
XX CC identify candidate drugs for treating tumours or promoting wound healing;
XX CC and (6) identifying endothelial cells. TEM proteins have cytoelastic and
XX CC vulnereary activities. The TEM proteins are useful for identifying a
XX CC ligand involved in endothelial cell regulation, inhibiting
XX CC neoangiogenesis, screening for neoangiogenesis, promoting
XX CC neoangiogenesis, identifying candidate drugs for treating tumours or

CC promoting wound healing or identifying endothelial cells. The present
CC sequence represents a cytoplasmic tumour endothelial marker standard tag
CC oligonucleotide, which is used in the exemplification of the present
CC invention.

XX Sequence 10 BP; 2 A; 0 C; 7 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAAGGTGGG 1037
Db 1 AGAGGTGGG 10

RESULT 101

ADM69071
ID ADM69071 standard; DNA; 10 BP.

XX ADM69071;

XX 03-JUN-2004 (first entry)

XX Human TAT protein-related tag ASCL2 oligonucleotide seqID7.

XX achaeete-scute like-2; tumour-associated antigenic target polypeptide;

KW TAT376; TAT377; TAT; cytosolic; gene therapy;

KW cell proliferative disorder; tumour; cancer; prostate cancer;

KW lung cancer; breast cancer; colon cancer; ovarian cancer;

KW chromosome mapping; gene mapping; tissue typing; ASCU-2; ss; human.

XX Homo sapiens.

XX WO2004019857-A2.

XX 11-MAR-2004.

XX 04-JUN-2003; 2003WO-US017682.

XX 29-AUG-2002; 2002US-0407087P.

XX (GETH) GENENTECH INC.

XX Baldwin D, Clark H, Jubb A, Koeppe H, Quan C, Wu TD, Zhang Z;

XX WPI; 2004-239106/22.

XX New TAT376 and TAT377 nucleic acid, useful for preparing a medicament for

PT treating or diagnosing a cell proliferative disorder, tumor or cancer,

PT e.g. prostate, lung, breast, colon or ovarian cancer.

XX Example 2; SEQ ID NO 7; 159pp; English.

CC This invention relates to novel isolated nucleic acids and their encoded
CC achaeete-scute like-2 polypeptides. In particular, the invention relates
CC to tumour-associated antigenic target polypeptides (TAP) 376 and 377 and
CC the DNA sequences which encode them. The invention may be useful for the
CC development of compounds with a cytostatic activity or for gene therapy.
CC TAT376 or TAT377 nucleic acids, polypeptides, antibodies or oligopeptides
CC are useful for preparing a medicament for treating or diagnosing a cell
CC proliferative disorder, tumour or cancer (for example prostate, lung,
CC breast, colon or ovarian cancer). The nucleic acids may be used as
CC hybridisation probes for a cDNA library to isolate the full length TAT376
CC or TAT377 cDNA, in chromosome or gene mapping, in gene therapy, and in
CC tissue typing. The present sequence is that of an oligonucleotide which
CC was used in the exemplification of the invention.

XX Sequence 10 BP; 3 A; 3 C; 3 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1021 CTGCCACAGA 1030
Db 1 CTGCCACAGA 10

RESULT 102

ADM33249/c
ID ADM33249 standard; DNA; 10 BP.

XX ADM33249;

XX 17-JUN-2004 (first entry)

XX Oligo SEQ ID 84, used in method for estimating melting temperature.

XX Melting temperature; probe design; primer design; ss.

XX Synthetic.

XX WO2004025257-A2.

XX 25-MAR-2004.

XX 12-SEP-2003; 2003WO-US028664.

XX 12-SEP-2002; 2002US-0410663P.

XX (INTE-) INTEGRATED DNA TECHNOLOGIES INC.

XX Owczarzy R, Walder JA, Huang L, Behlke MA;

XX WPI; 2004-340203/31.

XX Estimating melting temperature, for designing or selecting

PT oligonucleotide probes or primers, comprises modifying the reference

PT melting temperature by a logarithm of the ratio of the desired ion to the

PT reference ion concentrations.

XX Example 1; Page 41; 66pp; English.

XX The present invention relates to a method for estimating a melting

CC temperature (Tm) for a polynucleotide at a desired ion concentration

CC having a known G-C content value. The method is useful designing and

CC selecting oligonucleotide probes and primers. The present sequence was

CC used to illustrate the method of the invention.

XX Sequence 10 BP; 2 A; 4 C; 0 G; 4 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1027 AAGAAGTGG 1036
Db 10 AAGAAGTGG 1

RESULT 103

AAA16595
ID AAA16595 standard; DNA; 11 BP.

XX AAA16595;

XX 16-JUN-2000 (first entry)

XX Human MN gene 5' donor consensus splice sequence SEQ ID NO:73.

XX Human: MN protein; MN gene; oncogene; carbonic anhydrase; tumour;

KW oncogenesis; diagnosis; neoplastic disease; cancer; carcinoma;

KW MN/CA IX isoenzyme; db.

XX Homo sapiens.

```

XX  US6027887-A.
XX
XX  22-FEB-2000.
XX
XX  24-JAN-1997; 97US-00787739.
XX
XX  21-OCT-1992; 92US-00964589.
XX  30-DEC-1993; 93US-00177093.
XX  15-JUN-1994; 94US-00260190.
XX  07-JUN-1995; 95US-00477504.
XX  07-JUN-1995; 95US-00481658.
XX  07-JUN-1995; 95US-00485049.
XX  07-JUN-1995; 95US-00485862.
XX  07-JUN-1995; 95US-00485863.
XX  07-JUN-1995; 95US-00486756.
XX  07-JUN-1995; 95US-00487077.
XX
XX  (SLSC-) SLOVAK ACAD SCI INST VIROLOGY.
XX
XX  Pastorek J, Zavada J, Pastorekova S;
XX  WPI; 2000-194827/17.
XX
XX  Nucleic acid based assay for diagnosing a wide variety of
XX  preneoplastic/neoplastic disease comprises screening for the presence of
XX  abnormal MN gene expression in a vertebrate.
XX
XX  Disclosure; Col 16; 87pp; English.
XX
XX  The present invention describes a method of screening for
XX  preneoplastic/neoplastic disease. The method comprising: (1) determining
XX  whether abnormal MN gene expression is present in a vertebrate; and (2)
XX  if abnormal MN gene expression is determined to be present in the
XX  vertebrate, determining that the vertebrate has a significant risk of
XX  having preneoplastic/neoplastic disease. The MN gene is an oncogene and
XX  encodes an MN protein (also referred to as MN/CA IX isoenzyme). The MN
XX  protein is a tumour associated carbonic anhydrase isoenzyme. The method
XX  is used for detecting a wide variety of preneoplastic/neoplastic diseases
XX  in a vertebrate, preferably a human. The disease detected is mammary,
XX  bladder, renal, urinary tract, ovarian, uterine, cervical, endometrial,
XX  testicular, brain, head and neck, mesodermal, gallbladder, rectal,
XX  duodenal, jejunal, ileal, gastric, pancreatic duct, liver duct, gastric
XX  mucosa, gallbladder epithelium, small intestinal mucosa, colorectal
XX  mucosa, pancreatic duct epithelium or liver duct epithelium
XX  CC preneoplastic/neoplastic disease. AAA16540 to AAA16617 and AA953228 to
XX  CC AA953245 represent sequences used in the exemplification of the present
XX  invention
XX
XX  Sequence 11 BP, 2 A, 2 C, 6 G, 1 T, 0 U, 0 Other;
SQ
XX
XX  Query Match 42.0%; Score 8.4; DB 1; Length 11;
XX  Best Local Similarity 90.0%; Pred. No. 58;
XX  Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY
XX  1028 AGAAGTGGG 1037
XX  |||||||
XX  1 AGCAGGTGGG 10
XX
XX  RESULT 104
XX  ID AAA52514 standard; DNA; 11 BP.
XX  AAA52514;
XX
XX  25-SEP-2000 (first entry)
XX
XX  Human MN gene intron 7 splice donor sequence.
XX
XX  MN protein; tumour associated cell adhesion molecule; oncoprotein;
XX  proteoglycan domain; PG domain; carbonic anhydrase; CA domain;
KW

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KM  abnormal expression; neoplastic disease; cancer; gene therapy; de.
XX
XX  Homo sapiens.
XX
XX  WO200024913-A2.
XX
XX  04-MAY-2000.
XX
XX  22-OCT-1999; 99MO-US024879.
XX
XX  23-OCT-1998; 98US-00177776.
XX  23-OCT-1998; 98US-00178115.
XX
XX  (PARB.) BAYER CORP.
XX  (VIRO-) INST VIROLOGY.
XX
XX  Zavada J, Pastorekova S, Pastorek J;
XX  WPI; 2000-350752/30.
XX
XX  A molecule which specifically binds to a site on MN protein (oncoprotein)
XX  and prevents adhesion of vertebrate cells to the protein, useful for
XX  treating preneoplastic or neoplastic diseases such as cancer.
XX
XX  Disclosure; Page 26; 154pp; English.
XX
XX  The invention relates to the inhibition of cell adhesion mediated by the
XX  MN oncoprotein (also known as the MN/CA IX isoenzyme or the MN/G50
XX  protein). The MN protein is a tumour-associated adhesion molecule which
XX  comprises a proteoglycan-like (PG) domain (AA803017) which contains the
XX  protein's binding site, and a carbonic anhydrase (CA) domain (AA803018).
XX  Abnormal expression of the MN protein is associated with tumorigenicity.
XX  The invention encompasses molecules (e.g., proteins and peptides) which
XX  which specifically bind to a site on the MN protein, thereby preventing
XX  adhesion of vertebrate cells to the protein in a cell adhesion assay. It
XX  also encompasses MN proteins or MN protein fragments which can be added
XX  to the extracellular environment to prevent the adhesion of vertebrate
XX  cells to each other. The invention also relates to the identification of
XX  the binding site of the MN protein and to a method of identifying a site
XX  on an MN protein to which cells adhere, comprising testing a series of
XX  overlapping peptides from the protein in a cell adhesion assay. The
XX  invention encompasses a vector comprising an expression control sequence
XX  operatively linked to a nucleic acid encoding the variable domains of a
XX  MN-specific antibody, where the domains are separated by a flexible
XX  linker peptide (AA803035) and the vector inhibits the growth of a
XX  vertebrate preneoplastic or neoplastic cell that abnormally expresses MN
XX  protein. The invention also encompasses a vector comprising a nucleic
XX  acid encoding a cytotoxic protein or peptide operatively linked to the MN
XX  gene promoter, which inhibits the growth of a vertebrate preneoplastic or
XX  neoplastic cell. Also claimed is a repressor complex that binds to the MN
XX  gene promoter (AA82473). MN proteins and peptides, MN-binding proteins
XX  and peptides, and expression vectors encoding such proteins and peptides
XX  are useful for treating patients with preneoplastic or neoplastic disease
XX  (e.g., cancers) associated with or characterised by abnormal MN
XX  expression. The present sequence represents a fragment of the human MN
XX  gene (AAA52462) specified in the invention
XX
XX  Sequence 11 BP, 2 A, 2 C, 6 G, 1 T, 0 U, 0 Other;
SQ
XX
XX  Query Match 42.0%; Score 8.4; DB 1; Length 11;
XX  Best Local Similarity 90.0%; Pred. No. 58;
XX  Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY
XX  1028 AGAAGTGGG 1037
XX  |||||||
XX  1 AGCAGGTGGG 10
XX
XX  RESULT 105
XX  ID AB087504/c standard; cDNA; 11 BP.
XX  AB087504;
XX
XX  AB087504;
AC

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XX 10-SEP-2002 (first entry)
XX Human skin stress/ageing related EST SEQ ID NO 1259.
DE Human; skin ageing; skin stress; EST; expressed sequence tag; ss.
XX Human; skin ageing; skin stress; EST; expressed sequence tag; ss.
XX Homo sapiens.
OS WO200253773-A2.
PN 11-JUL-2002.
XX 20-DEC-2001; 2001WO-EP015178.
XX 03-JAN-2001; 2001DE-01000121.
XX (HENK ) HENKEL KGAA.
PA Petersohn D, Conradt M, Hofmann K;
XX WPI; 2002-528865/56.
XX Identifying genes involved in skin stress and aging, useful e.g. in
PT screening for cosmetic or therapeutic agents, based on differential gene
PT expression.
XX Claim 8; Page 89; 325pp; German.
XX The invention relates to identifying (M1) genes in vitro that, in humans
CC or animals, are important for skin ageing and/or skin stress by serial
CC analysis of gene expression between mixtures of transcribed and
CC optionally translated, genetically encoded factors (A) obtained from
CC young and aged skin, to identify that genes that show strong differential
CC expression. (A) comprises protein or mRNAs or their fragments. (M1) is
CC useful for: identifying markers of skin ageing and/or stress; determining
CC skin ageing and/or stress; and identifying or determining the effects of
CC pharmaceutical or cosmetic agents for control of skin ageing. The present
CC sequence is one of a group of human skin ageing/stress related expressed
CC sequence tags (ABQ86246-ABQ87680) of the invention
XX
SQ Sequence 11 BP; 2 A; 3 C; 2 G; 4 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred.No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0.
QY 1026 CACGACGCTG 1035
DB 11 CAATACGCTG 2
RESULT 106
ABQ87500/c
XX ID ABO87500 standard; cDNA; 11 BP.
AC ABO87500;
XX
XX 10-SEP-2002 (first entry)
XX Human skin stress/ageing related EST SEQ ID NO 1255.
XX Human; skin ageing; skin stress; EST; expressed sequence tag; ss.
XX Homo sapiens.
OS WO200253773-A2.
XX 11-JUL-2002.
XX 20-DEC-2001; 2001WO-EP015178.
XX 03-JAN-2001; 2001DE-01000121.
XX (HENK ) HENKEL KGAA.
PA Petersohn D, Conradt M, Hofmann K;
XX WPI; 2002-528865/56.
XX Identifying genes involved in skin stress and aging, useful e.g. in
PT screening for cosmetic or therapeutic agents, based on differential gene
PT expression.
XX Claim 8; Page 89; 325pp; German.
XX The invention relates to identifying (M1) genes in vitro that, in humans
CC or animals, are important for skin ageing and/or skin stress by serial
CC analysis of gene expression between mixtures of transcribed and
CC optionally translated, genetically encoded factors (A) obtained from
CC young and aged skin, to identify that genes that show strong differential
CC expression. (A) comprises protein or mRNAs or their fragments. (M1) is
CC useful for: identifying markers of skin ageing and/or stress; determining
CC skin ageing and/or stress; and identifying or determining the effects of
CC pharmaceutical or cosmetic agents for control of skin ageing. The present
CC sequence is one of a group of human skin ageing/stress related expressed
CC sequence tags (ABQ86246-ABQ87680) of the invention
XX
SQ Sequence 11 BP; 2 A; 3 C; 2 G; 4 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred.No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0.
QY 1026 CACGACGCTG 1035
DB 11 CAATACGCTG 2

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XX      (HENK ) HENKEL KGAA.
PA
XX
XX      Petersehn D, Conradt M, Hofmann K;
PI
XX
XX      WPI; 2002-528865/56.
DR
XX
XX      Identifying genes involved in skin stress and aging, useful e.g. in
PT      screening for cosmetic or therapeutic agents, based on differential gene
PT      expression.
XX
XX      Claim 8; Page 89; 325pp; German.
PS
XX
XX      The invention relates to identifying (MI) genes in vitro that, in humans
CC      or animals, are important for skin ageing and/or skin stress by serial
CC      analysis of gene expression between mixtures of transcribed and
CC      optionally translated, genetically encoded factors (A) obtained from
CC      young and aged skin, to identify that genes that show strong differential
CC      expression. (A) comprises protein or mRNAs or their fragments. (MI) is
CC      useful for: identifying markers of skin ageing and/or stress; determining
CC      skin ageing and/or stress; and identifying or determining the effects of
CC      pharmaceutical or cosmetic agents for control of skin ageing. The present
CC      sequence is one of a group of human skin ageing/stress related expressed
CC      sequence tags (ABQ86246-ABQ87680) of the invention
XX
XX      Sequence 11 BP; 1 A; 4 C; 3 G; 3 T; 0 U; 0 Other;
SQ
XX
XX      Query Match          42.0%; Score 8.4; DB 1; Length 11;
XX      Best Local Similarity 90.0%; Pred. No. 58;
XX      Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY      1026 CACGAGGCTG 1035
XX      |||||
XX      11 CCAGAGGCTG 2
DB
XX
XX      RESULT 107
XX      ABQ86415
XX      ID ABQ86415 standard; cDNA; 11 BP.
XX
XX      AC ABQ86415;
XX
XX      DT 10-SEP-2002 (first entry)
XX
XX      DE Human skin stress/ageing related EST SEQ ID NO 170.
XX
XX      KW Human; skin ageing; skin stress; EST; expressed sequence tag; ss.
XX
XX      OS Homo sapiens.
XX      PN WO200253773-A2.
XX
XX      PD 11-JUL-2002.
XX
XX      PF 20-DEC-2001; 2001WO-EP015178.
XX      PR 03-JAN-2001; 2001DE-01000121.
XX      PA (HENK ) HENKEL KGAA.
XX      PI Petersehn D, Conradt M, Hofmann K;
XX      DR WPI; 2002-528865/56.
XX
XX      Identifying genes involved in skin stress and aging, useful e.g. in
PT      screening for cosmetic or therapeutic agents, based on differential gene
PT      expression.
XX
XX      Claim 8; Page 44; 325pp; German.
CC
XX      The invention relates to identifying (MI) genes in vitro that, in humans
CC      or animals, are important for skin ageing and/or skin stress by serial
CC      analysis of gene expression between mixtures of transcribed and

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CC optionally translated, genetically encoded factors (A) obtained from
CC young and aged skin, to identify that genes that show strong differential
CC expression. (A) comprises protein or mRNAs or their fragments. (M1) is
CC useful for: identifying markers of skin ageing and/or stress; determining
CC skin ageing and/or stress; and identifying or determining the effects of
CC pharmaceutical or cosmetic agents for control of skin ageing. The present
CC sequence is one of a group of human skin ageing/stress related expressed
CC sequence tags (ABQ86246-ABQ87680) of the invention
XX
SO Sequence 11 BP; 6 A; 0 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1027 AAGAGGTGG 1036
Db 2 AAGAGGTGG 11
|||||
|

RESULT 108
ABV66344
ID ABV66344 standard; cDNA; 11 BP.
XX
AC ABV66344;
XX
DT 21-OCT-2002 (first entry)
XX
DE Human skin EST 4130.
XX
KW Human; skin; dermatological; vulnery; antiporiatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cyostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
PN WO200253774-A2.
XX
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PA (HENKEL) HENKEL KGAA.
XX
PI Petersohn D, Conradt M, Hofmann K;
XX
DR WPI; 2002-590638/63.
XX
PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Disclosure; Page 139; 1345pp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SO Sequence 11 BP; 5 A; 3 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1027 AAGAGGTGG 1036
Db 1 AAGAGGTGG 10
|||||
|

RESULT 110
ABV70185
ID ABV70185 standard; cDNA; 11 BP.
XX
AC ABV70185;
XX
```

DT 21-OCT-2002 (first entry)
XX
XX Human skin EST 7971.
DE
XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
XX WO200253774-A2.
XX
XX 11-JUL-2002.
PD
XX 20-DEC-2001; 2001WO-EP015179.
PF
XX 03-JAN-2001; 2001DE-01000127.
PR
XX (HENKEL) HENKEL KGAA.
PA
XX Petersohn D, Conradt M, Hofmann K;
FI
XX WPI; 2002-590638/63.
DR
XX
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
XX Claim 24; Page 254; 1345pp; German.
PS
XX The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 4 A; 0 C; 6 G; 1 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1027 AAGAGGTGG 1036
DB 1 AAGAGGTGG 10
RESULT 111
ABV62651/C
ID ABV62651 standard; CDNA; 11 BP.
XX
XX ABV62651;
AC
XX 21-OCT-2002 (first entry)
DT
XX Human skin EST 437.
DE
XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
XX Homo sapiens.
XX
XX WO200253774-A2.
XX
XX 11-JUL-2002.
PD

XX
XX 20-DEC-2001; 2001WO-EP015179.
PF
XX 03-JAN-2001; 2001DE-01000127.
PR
XX (HENKEL) HENKEL KGAA.
PA
XX Petersohn D, Conradt M, Hofmann K;
FI
XX WPI; 2002-590638/63.
DR
XX
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
XX Disclosure; Page 37; 1345pp; German.
PS
XX The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 0 A; 6 C; 2 G; 3 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1028 AAGAGGTGG 1037
DB 11 AAGAGGTGG 2
RESULT 112
ABV67006
ID ABV67006 standard; CDNA; 11 BP.
XX
XX ABV67006;
AC
XX 21-OCT-2002 (first entry)
DT
XX Human skin EST 4792.
DE
XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
XX Homo sapiens.
XX
XX WO200253774-A2.
XX
XX 11-JUL-2002.
PD
XX 20-DEC-2001; 2001WO-EP015179.
PF
XX 03-JAN-2001; 2001DE-01000127.
PR
XX (HENKEL) HENKEL KGAA.
PA
XX Petersohn D, Conradt M, Hofmann K;
FI
XX WPI; 2002-590638/63.
DR
XX
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against

PT e.g. skin cancer.
XX
PS Disclosure; Page 157; 1345bp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
CC
SQ Sequence 11 BP; 6 A; 0 C; 4 G; 1 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1027 AAGAGGTGG 1036
|||
2 AAGAAAGTGG 11
Db
RESULT 113
ABV67047/C
ID ABV67047 standard; cDNA; 11 BP.
XX
AC ABV67047;
XX
DT 21-OCT-2002 (first entry)
XX
DE Human skin EST 4833.
XX
KW Human; skin; dermatological; vulnery; antiporiatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
PN WO200253774-A2.
XX
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PA (HENKEL) HENKEL KGAA.
XX
PI Peterohn D, Conradt M, Hofmann K;
XX
DR WPI; 2002-590638/63.
XX
PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Disclosure; Page 158; 1345bp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC

CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
CC
SQ Sequence 11 BP; 1 A; 4 C; 3 G; 3 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1026 CAAGAAGTGG 1035
|||
11 CCAAGAAGTGG 2
Db
RESULT 114
ABV64836
ID ABV64836 standard; cDNA; 11 BP.
XX
AC ABV64836;
XX
DT 21-OCT-2002 (first entry)
XX
DE Human skin EST 2622.
XX
KW Human; skin; dermatological; vulnery; antiporiatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
PN WO200253774-A2.
XX
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PA (HENKEL) HENKEL KGAA.
XX
PI Peterohn D, Conradt M, Hofmann K;
XX
DR WPI; 2002-590638/63.
XX
PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Disclosure; Page 98; 1345bp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
CC
SQ Sequence 11 BP; 6 A; 0 C; 4 G; 1 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1027 AAGAGGTGG 1036
|||
1 AAAAAGTGG 10
Db

RESULT 115

ABV67092/c

ID ABV67092 standard; cDNA; 11 BP.

XX ABV67092;

XX 21-OCT-2002 (first entry)

XX Human skin EST 4878.

XX Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX Homo sapiens.

XX WO200253774-A2.

XX 11-JUL-2002.

XX 20-DEC-2001; 2001WO-EP015179.

XX 03-JAN-2001; 2001DE-01000127.

XX (HENK) HENKEL KGAA.

XX Petersohn D, Conradt M, Hofmann K;

XX WPI; 2002-590638/63.

XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.

XX Disclosure; Page 159; 1345pp; German.

XX The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention

XX Sequence 11 BP; 1 A; 5 C; 1 G; 4 T; 0 U; 0 Other;

XX Query Match 42.0%; Score 8.4; DB 1; Length 11;

XX Best Local Similarity 90.0%; Pred. No. 58;

XX Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1027 AAGGAGGTGG 1036

DB 10 AAGCAGGTGG 1

RESULT 116

ABV67518/c

ID ABV67518 standard; cDNA; 11 BP.

XX ABV67518;

XX 21-OCT-2002 (first entry)

XX Human skin EST 5304.

XX Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhoeic;

KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX Homo sapiens.

XX WO200253774-A2.

XX 11-JUL-2002.

XX 20-DEC-2001; 2001WO-EP015179.

XX 03-JAN-2001; 2001DE-01000127.

XX (HENK) HENKEL KGAA.

XX Petersohn D, Conradt M, Hofmann K;

XX WPI; 2002-590638/63.

XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.

XX Disclosure; Page 171; 1345pp; German.

XX The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention

XX Sequence 11 BP; 3 A; 0 C; 5 G; 3 T; 0 U; 0 Other;

XX Query Match 42.0%; Score 8.4; DB 1; Length 11;

XX Best Local Similarity 90.0%; Pred. No. 58;

XX Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1019 TTCTGCCCAA 1028

DB 11 TTCTACCCAA 2

RESULT 117

ABV72108/c

ID ABV72108 standard; cDNA; 11 BP.

XX ABV72108;

XX 21-OCT-2002 (first entry)

XX Human skin EST 9894.

XX Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX Homo sapiens.

XX WO200253774-A2.

XX 11-JUL-2002.

XX 20-DEC-2001; 2001WO-EP015179.

XX 03-JAN-2001; 2001DE-01000127.

PA (HENK) HENKEL KGAA.
XX PI Petersohn D, Conradt M, Hofmann K;
XX WPI; 2002-590638/63.
XX
PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Claim 24; Page 323; 1345pp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
CC
SQ Sequence 11 BP; 2 A; 4 C; 3 G; 2 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1020 TCTGCCCAAG 1029
DB 11 TGTCCCAAG 2
|||||
|
RESULT 118
ABV62632
ID ABV62632 standard; cDNA; 11 BP.
XX
AC ABV62632;
XX
DT 21-OCT-2002 (first entry)
XX
DE Human skin EST 418.
XX
KW Human; skin; dermatological; vulnery; antipsoriatic; anti-seborrhoeic;
KW immunosuppressive; anti-inflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
PN WO200253774-A2.
XX
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PA (HENK) HENKEL KGAA.
XX
PI Petersohn D, Conradt M, Hofmann K;
XX
DR WPI; 2002-590638/63.
XX
PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Disclosure; Page 37; 1345pp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed

CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
CC
SQ Sequence 11 BP; 5 A; 1 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1026 CAAGAAAGTG 1035
DB 2 CAAGAAAGTG 11
|||||
|
RESULT 119
ABV65381
ID ABV65381 standard; cDNA; 11 BP.
XX
AC ABV65381;
XX
DT 21-OCT-2002 (first entry)
XX
DE Human skin EST 3167.
XX
KW Human; skin; dermatological; vulnery; antipsoriatic; anti-seborrhoeic;
KW immunosuppressive; anti-inflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
PN WO200253774-A2.
XX
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PA (HENK) HENKEL KGAA.
XX
PI Petersohn D, Conradt M, Hofmann K;
XX
DR WPI; 2002-590638/63.
XX
PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Disclosure; Page 113; 1345pp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
CC
SQ Sequence 11 BP; 3 A; 0 C; 7 G; 1 T; 0 U; 0 Other;

```

Query Match          42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1028 AGAGGTGGG 1037
      ||| ||| |||
      1 AGAGGTGGG 10

Db
RESULT 120
ABV67446/c
ID      ABV67446 standard; cDNA; 11 BP.
XX
AC      ABV67446;
XX
XX
XX      21-OCT-2002 (first entry)
XX
DE      Human skin EST 5232.
XX
KW      Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW      immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;
KW      psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS      Homo sapiens.
XX
PN      WO200253774-A2.
XX
PD      11-JUL-2002.
XX
PF      20-DEC-2001; 2001WO-EP015179.
XX
PR      03-JAN-2001; 2001DE-01000127.
XX
PA      (HENK ) HENKEL KGAA.
XX
PI      Petersohn D, Conradt M, Hofmann K;
XX
PI      Petersohn D, Conradt M, Hofmann K;
XX
DR      WPI; 2002-590638/63.
XX
PT      In vitro identification of skin-expressed genes, useful for determining
PT      homeostasis and identifying cosmetic or pharmaceutical agents against
PT      e.g. skin cancer.
XX
PS      Disclosure; Page 163; 1345pp; German.
XX
CC      The invention relates to in vitro identification (M1) of genes expressed
CC      in the skin of humans or animals by subjecting a mixture of genetically
CC      encoded factors from skin, to serial analysis of gene expression (SAGE)
CC      so as to identify skin-expressed genes and quantify their expression.
CC      (M1) is useful for identifying genes involved in skin homeostasis; to
CC      determine skin homeostasis and to test agent (A) that maintains or
CC      promotes skin homeostasis or that can be used for treating skin
CC      disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC      ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC      rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC      skin. The present sequence is that of a human expressed sequence tag
CC      (EST) of the invention
XX
SQ      Sequence 11 BP; 2 A; 3 C; 2 G; 4 T; 0 U; 0 Other;

Query Match          42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1026 CAAGAGGCTG 1035
      ||| ||| |||
      11 CAATAGAGCTG 2

Db
RESULT 121
ABV6204/c
ID      ABV6204 standard; cDNA; 11 BP.

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XX
AC      ABV6204;
XX
XX      21-OCT-2002 (first entry)
XX
DE      Human skin EST 3990.
XX
KW      Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW      immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;
KW      psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS      Homo sapiens.
XX
PN      WO200253774-A2.
XX
PD      11-JUL-2002.
XX
PF      20-DEC-2001; 2001WO-EP015179.
XX
PR      03-JAN-2001; 2001DE-01000127.
XX
PA      (HENK ) HENKEL KGAA.
XX
PI      Petersohn D, Conradt M, Hofmann K;
XX
PI      Petersohn D, Conradt M, Hofmann K;
XX
DR      WPI; 2002-590638/63.
XX
PT      In vitro identification of skin-expressed genes, useful for determining
PT      homeostasis and identifying cosmetic or pharmaceutical agents against
PT      e.g. skin cancer.
XX
PS      Disclosure; Page 135; 1345pp; German.
XX
CC      The invention relates to in vitro identification (M1) of genes expressed
CC      in the skin of humans or animals by subjecting a mixture of genetically
CC      encoded factors from skin, to serial analysis of gene expression (SAGE)
CC      so as to identify skin-expressed genes and quantify their expression.
CC      (M1) is useful for identifying genes involved in skin homeostasis; to
CC      determine skin homeostasis and to test agent (A) that maintains or
CC      promotes skin homeostasis or that can be used for treating skin
CC      disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC      ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC      rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC      skin. The present sequence is that of a human expressed sequence tag
CC      (EST) of the invention
XX
SQ      Sequence 11 BP; 3 A; 1 C; 5 G; 2 T; 0 U; 0 Other;

Query Match          42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1019 TTCTGCCCA 1028
      ||| ||| |||
      10 TTCTGCCCA 1

Db
RESULT 122
ABV65314/c
ID      ABV65314 standard; cDNA; 11 BP.
XX
AC      ABV65314;
XX
XX
XX      21-OCT-2002 (first entry)
XX
DE      Human skin EST 3100.
XX
KW      Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW      immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;
KW      psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS      Homo sapiens.
XX

```

PN WO200253774-A2.
XX 11-JUL-2002.
PD
XX 20-DEC-2001; 2001WO-EP015179.
PF
XX 03-JAN-2001; 2001DE-01000127.
PR
XX (HENKEL KGAA.
PA
XX Petersohn D, Conradt M, Hofmann K;
PI
XX WPI; 2002-590638/63.
DR
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Disclosure; Page 111; 1345pp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 2 A; 5 C; 0 G; 4 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1028 AGAAGTCGGC 1037
DB 11 AGAAGTCGGC 2

RESULT 123
ABV70072/C
ID ABV70072 standard; cDNA; 11 BP.
XX
XX ABV70072;
AC
XX 21-OCT-2002 (first entry)
DT
XX Human skin EST 7858.
DE
XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytosolic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
XX Homo sapiens.
OS
XX WO200253774-A2.
PN
XX 11-JUL-2002.
PD
XX 20-DEC-2001; 2001WO-EP015179.
PF
XX 03-JAN-2001; 2001DE-01000127.
PR
XX (HENKEL KGAA.
PA
XX Petersohn D, Conradt M, Hofmann K;
PI
XX WPI; 2002-590638/63.
DR

XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
XX Claim 24; Page 250; 1345pp; German.
PS
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 0 A; 6 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1028 AGAAGTCGGC 1037
DB 11 AGAAGTCGGC 2

RESULT 124
ABV69202
ID ABV69202 standard; cDNA; 11 BP.
XX
XX ABV69202;
AC
XX 21-OCT-2002 (first entry)
DT
XX Human skin EST 6988.
DE
XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytosolic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
XX Homo sapiens.
OS
XX WO200253774-A2.
PN
XX 11-JUL-2002.
PD
XX 20-DEC-2001; 2001WO-EP015179.
PF
XX 03-JAN-2001; 2001DE-01000127.
PR
XX (HENKEL KGAA.
PA
XX Petersohn D, Conradt M, Hofmann K;
PI
XX WPI; 2002-590638/63.
DR
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Disclosure; Page 219; 1345pp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or

SQ Sequence 11 BP; 4 A; 1 C; 3 G; 3 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 58;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1019 TTCTGCCCAA 1028
 11 TTTTCCCCA 2
 Db 11 TTTTCCCCA 2
 RESULT 127
 ADK41823
 ID ADK41823 standard; DNA; 11 BP.
 AC ADK41823;
 XX
 DT 06-MAY-2004 (first entry)
 XX
 DE Human MN gene intron-exon boundary sequence SeqID52.
 XX
 KW carbonic anhydrase IX; CA IX; precancerous cell; MN; cancerous cell;
 KM human; vertebrate; cytostatic; vaccine; gene therapy;
 KM renal cell carcinoma; breast cancer; colorectal cancer; splice acceptor;
 KM ds.
 XX
 OS Homo sapiens.
 XX
 PN WO204005348-A1.
 PD 15-JAN-2004.
 XX
 PF 22-FEB-2003; 2003WO-US005137.
 XX
 PR 23-MAY-2002; 2002US-0383068P.
 PR 05-DEC-2002; 2002US-0431499P.
 XX
 PA (PARB) BAYER CORP.
 PA (VIR-) INST VIROLOGY.
 XX
 PI Zavada J, Pastorekova S, Pastorek J, Zavadova Z;
 XX
 DR WPI; 2004-083500/08.
 XX
 PT New soluble form of the carbonic anhydrase IX (CA IX) protein for
 screening, diagnosing or prognosing diseases associated with abnormal
 expression of CA IX protein, e.g. renal cell carcinoma, breast cancer or
 colorectal cancer.
 PT
 XX
 PS Disclosure; SEQ ID NO 52; 159pp; English.
 XX
 CC This invention relates to a novel soluble form of the carbonic anhydrase
 CC IX (CA IX) (or MN) protein or CA IX polypeptide which is released from
 CC precancerous and/or cancerous cells of a vertebrate into a body fluid.
 CC The invention may be useful for the development of compounds with a
 CC cytostatic activity or a vaccine whilst the disclosed sequences may be
 CC used for gene therapy. The protein and method are useful for screening,
 CC diagnosing or prognosing diseases associated with abnormal expression of
 CC carbonic anhydrase IX protein, such as precancerous and cancerous
 CC diseases like renal cell carcinoma, breast cancer or colorectal cancer.
 CC The monoclonal antibody may also be used for treating or preventing
 CC precancerous and cancerous diseases. The present sequence is that of a
 CC splice acceptor site from a human MN gene intron-exon boundary which is
 CC related to the invention.
 CC
 XX
 SQ Sequence 11 BP; 2 A; 2 C; 6 G; 1 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 58;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1028 AGAAGTGGG 1037
 11 TTTTCCCCA 2

Db 1 AGCAGGTGGG 10
 RESULT 128
 ADQ35643/c
 ID ADQ35643 standard; DNA; 11 BP.
 AC ADQ35643;
 XX
 DT 23-SEP-2004 (first entry)
 XX
 DE Human hair-bearing skin-associated DNA fragment SEQ ID NO 460.
 XX
 KW hair-bearing skin; human; serial analysis of gene expression; SAGE;
 KM homeostasis; cosmetic; pharmaceutical; biochip; ds.
 KM
 OS Homo sapiens.
 XX
 PN DE10260931-A1.
 PD 08-JUL-2004.
 XX
 PF 20-DEC-2002; 2002DE-01060931.
 PF
 PR 20-DEC-2002; 2002DE-01060931.
 XX
 PA (HENK) HENKEL KGAA.
 XX
 PI Petersohn D, Schlotmann K, Gassenmeier T, Holtkoetter O;
 PI Conradt M, Hofmann K;
 XX
 DR WPI; 2004-518657/50.
 XX
 PF In vitro identification of genes important for hair-bearing skin, useful
 PF for assessing homeostasis and in screening for pharmaceutical or cosmetic
 PT agents, based on differential expression analysis.
 PT
 XX
 PS Claim 5; SEQ ID NO 460; 250pp; German.
 XX
 CC This invention describes a novel in vitro method for identifying genes
 CC that are significant for hair-bearing skin in humans. The method
 CC comprises recovering, from hair-bearing skin, a first mixture of
 CC genetically expressed (transcribed and optionally translated) factors
 CC (i.e. proteins, mRNA or their fragments), recovering a second, similar
 CC mixture from skin on which hair does not grow and subjecting both
 CC mixtures to serial analysis of gene expression (SAGE) to identify those
 CC genes for which expression is markedly different between the two types of
 CC skin. The invention also describes in vitro methods for determining
 CC homeostasis of human hair-bearing skin and for determining activity of
 CC cosmetic and pharmaceutical agents for use against disorders or
 CC disturbances of the homeostasis of human hair-bearing skin. A biochip and
 CC a test kit comprising a solid support (flexible or rigid) with
 CC immobilised probes are also described for determining homeostasis. The
 CC hair-bearing skin is from the scalp and the other skin is from the face.
 CC The method allows identification of as many as possible of the genes
 CC important for hair-bearing skin, and therefore, of a very wide range of
 CC potential therapeutic and cosmetic agents. ADQ35184-ADQ36518 represent
 CC human DNA Tsg fragments used to identify genes associated with hair-
 CC bearing skin.
 CC
 XX
 SQ Sequence 11 BP; 1 A; 4 C; 3 G; 3 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 58;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1026 CAGAAGGTG 1035
 11 CAGAAGGTG 2
 Db 11 CAGAAGGTG 2
 RESULT 129
 ADQ35785/c

```

ID ADQ35785 standard; DNA; 11 BP.
XX
AC ADQ35785;
XX
DT 23-SEP-2004 (first entry)
XX
DE Human hair-bearing skin-associated DNA fragment SEQ ID NO 602.
XX
KM hair-bearing skin; human; serial analysis of gene expression; SAGE;
XX homeostasis; cosmetic; pharmaceutical; biochip; ds.
XX
OS Homo sapiens.
XX
PN DE10260931-A1.
XX
PD 08-JUL-2004.
XX
PF 20-DEC-2002; 2002DE-01060931.
XX
PR 20-DEC-2002; 2002DE-01060931.
XX
PA (HENK ) HENKEL KGAA.
XX
PI Petersohn D, Schlotmann K, Gassenmeier T, Holtkoetter O;
PI Conradt M, Hofmann K;
XX
DR WPI; 2004-518857/50.
XX
PT In vitro identification of genes important for hair-bearing skin, useful
PT for assessing homeostasis and in screening for pharmaceutical or cosmetic
PT agents, based on differential expression analysis.
XX
PS Claim 5; SEQ ID NO 602; 250bp; German.
XX
CC This invention describes a novel in vitro method for identifying genes
CC that are significant for hair-bearing skin in humans. The method
CC comprises recovering, from hair-bearing skin, a first mixture of
CC genetically expressed (transcribed and optionally translated) factors
CC (i.e. proteins, mRNA or their fragments), recovering a second, similar
CC mixture from skin on which hair does not grow and subjecting both
CC mixtures to serial analysis of gene expression (SAGE) to identify those
CC genes for which expression is markedly different between the two types of
CC skin. The invention also describes in vitro methods for determining
CC homeostasis of human hair-bearing skin and for determining activity of
CC cosmetic and pharmaceutical agents for use against disorders or
CC disturbances of the homeostasis of human hair-bearing skin. A biochip and
CC a test kit comprising a solid support (flexible or rigid) with
CC immobilised probes are also described for determining homeostasis. The
CC hair-bearing skin is from the scalp and the other skin is from the face.
CC The method allows identification of as many as possible of the genes
CC important for hair-bearing skin, and therefore, of a very wide range of
CC potential therapeutic and cosmetic agents. ADQ35184-ADQ36518 represent
CC human DNA Tag fragments used to identify genes associated with hair-
CC bearing skin.
XX
SQ Sequence 11 BP; 1 A; 1 C; 4 G; 5 T; 0 U; 0 Other;
XX
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1021 CTGCCCAAGA 1030
Db 10 CTGCCCAAAA 1

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XX
DE Human facial skin-associated DNA fragment SEQ ID NO 2850.
XX
KM facial skin; human; serial analysis of gene expression; SAGE;
XX homeostasis; biochip; cosmetic; pharmaceutical; ds.
XX
OS Homo sapiens.
XX
PN DE10260928-A1.
XX
PD 08-JUL-2004.
XX
PF 20-DEC-2002; 2002DE-01060928.
XX
PR 20-DEC-2002; 2002DE-01060928.
XX
PA (HENK ) HENKEL KGAA.
XX
PI Petersohn D, Schlotmann K, Gassenmeier T, Holtkoetter O;
PI Conradt M, Hofmann K;
XX
DR WPI; 2004-518855/50.
XX
PT In vitro identification of genes important for facial skin, useful for
PT assessing homeostasis and in screening for pharmaceutical or cosmetic
PT agents, based on differential expression analysis.
XX
PS Claim 4; SEQ ID NO 2850; 577bp; German.
XX
CC This invention describes a novel in vitro method for identifying genes
CC that are significant for facial skin in humans. The method comprises
CC recovering, from facial skin, a first mixture of genetically expressed
CC (transcribed and optionally translated) factors (i.e. proteins, mRNA or
CC their fragments), recovering a second, similar mixture from some other
CC human tissue, preferably skin from a protected area, especially from the
CC breast and subjecting the mixtures to serial analysis of gene expression
CC (SAGE) to identify those genes for which expression is markedly different
CC between facial skin and the other tissue. The invention also describes an
CC in vitro method for determining homeostasis of human facial skin; a test
CC kit which comprises a solid support (flexible or rigid) on which are
CC immobilised probes that bind specifically to the factors of interest and
CC a biochip for determining homeostasis of human facial skin. The products
CC of the invention are also used in a method which determines activity of
CC cosmetic and pharmaceutical agents for use against disorders or
CC disturbances of the homeostasis of human skin and a screening method for
CC identifying cosmetic and pharmaceutical agents. The method allows
CC identification of as many as possible of the genes important for facial
CC skin and thus of a very wide range of potential therapeutic and cosmetic
CC agents. ADQ31911-ADQ35111 represent human DNA Tag fragments used to
CC identify the facial skin-associated genes described in the invention.
XX
SQ Sequence 11 BP; 1 A; 5 C; 1 G; 4 T; 0 U; 0 Other;
XX
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1027 AAGAGGTGG 1036
Db 10 AAGCAGGTGG 1

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RESULT 130
ADQ34760/c
ID ADQ34760 standard; DNA; 11 BP.
XX
AC ADQ34760;
XX
DT 23-SEP-2004 (first entry)
XX

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RESULT 131
ADQ32076
ID ADQ32076 standard; DNA; 11 BP.
XX
AC ADQ32076;
XX
DT 23-SEP-2004 (first entry)
XX
DE Human facial skin-associated DNA fragment SEQ ID NO 166.
XX
KM facial skin; human; serial analysis of gene expression; SAGE;

```


KM homeostasis; biochip; cosmetic; pharmaceutical; ds.
XX Homo sapiens.
OS
XX DE10260928-A1.
XX
XX 08-JUL-2004.
XX
XX 20-DEC-2002; 2002DE-01060928.
XX
XX 20-DEC-2002; 2002DE-01060928.
XX
XX 20-DEC-2002; 2002DE-01060928.
XX
XX (HENKEL) HENKEL KGAA.
XX
XX Peterohn D, Schlotmann K, Gassenmeier T, Holtkoetter O;
PI Conradt M, Hofmann K;
XX WPI; 2004-518855/50.
XX
XX In vitro identification of genes important for facial skin, useful for
PT assessing homeostasis and in screening for pharmaceutical or cosmetic
PT agents, based on differential expression analysis.
XX
XX Claim 9; SEQ ID NO 166; 577bp; German.
XX
XX This invention describes a novel in vitro method for identifying genes
CC that are significant for facial skin in humans. The method comprises
CC recovering, from facial skin, a first mixture of genetically expressed
CC (transcribed and optionally translated) factors (i.e. proteins, mRNA or
CC their fragments), recovering a second, similar mixture from some other
CC human tissue, preferably skin from a protected area, especially from the
CC breast and subjecting the mixtures to serial analysis of gene expression
CC (SAGE) to identify those genes for which expression is markedly different
CC between facial skin and the other tissue. The invention also describes an
CC in vitro method for determining homeostasis of human facial skin; a test
CC kit which comprises a solid support (flexible or rigid) on which are
CC immobilised probes that bind specifically to the factors of interest and
CC a biochip for determining homeostasis of human facial skin. The products
CC of the invention are also used in a method which determines activity of
CC cosmetic and pharmaceutical agents for use against disorders or
CC disturbances of the homeostasis of human skin and a screening method for
CC identifying cosmetic and pharmaceutical agents. The method allows
CC identification of as many as possible of the genes important for facial
CC skin and thus of a very wide range of potential therapeutic and cosmetic
CC agents. ADQ31911-ADQ35111 represent human DNA Tag fragments used to
CC identify the facial skin-associated genes described in the invention.
XX
XX Sequence 11 BP; 6 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
SQ
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1023 GCCCAGAG 1032
DB 1 GCACACAGAG 10
RESULT 132
ADQ34356/c
ID ADQ34356 standard; DNA; 11 BP.
XX
XX ADQ34356;
XX
XX 23-SEP-2004 (first entry)
XX
XX Human facial skin-associated DNA fragment SEQ ID NO 2446.
XX
XX facial skin; human; serial analysis of gene expression; SAGE;
KM homeostasis; biochip; cosmetic; pharmaceutical; ds.
XX
XX Homo sapiens.
XX

PN DE10260928-A1.
XX
XX 08-JUL-2004.
XX
XX 20-DEC-2002; 2002DE-01060928.
XX
XX 20-DEC-2002; 2002DE-01060928.
XX
XX (HENKEL) HENKEL KGAA.
XX
XX Peterohn D, Schlotmann K, Gassenmeier T, Holtkoetter O;
PI Conradt M, Hofmann K;
XX WPI; 2004-518855/50.
XX
XX In vitro identification of genes important for facial skin, useful for
PT assessing homeostasis and in screening for pharmaceutical or cosmetic
PT agents, based on differential expression analysis.
XX
XX Claim 4; SEQ ID NO 2446; 577bp; German.
XX
XX This invention describes a novel in vitro method for identifying genes
CC that are significant for facial skin in humans. The method comprises
CC recovering, from facial skin, a first mixture of genetically expressed
CC (transcribed and optionally translated) factors (i.e. proteins, mRNA or
CC their fragments), recovering a second, similar mixture from some other
CC human tissue, preferably skin from a protected area, especially from the
CC breast and subjecting the mixtures to serial analysis of gene expression
CC (SAGE) to identify those genes for which expression is markedly different
CC between facial skin and the other tissue. The invention also describes an
CC in vitro method for determining homeostasis of human facial skin; a test
CC kit which comprises a solid support (flexible or rigid) on which are
CC immobilised probes that bind specifically to the factors of interest and
CC a biochip for determining homeostasis of human facial skin. The products
CC of the invention are also used in a method which determines activity of
CC cosmetic and pharmaceutical agents for use against disorders or
CC disturbances of the homeostasis of human skin and a screening method for
CC identifying cosmetic and pharmaceutical agents. The method allows
CC identification of as many as possible of the genes important for facial
CC skin and thus of a very wide range of potential therapeutic and cosmetic
CC agents. ADQ31911-ADQ35111 represent human DNA Tag fragments used to
CC identify the facial skin-associated genes described in the invention.
XX
XX Sequence 11 BP; 2 A; 5 C; 0 G; 4 T; 0 U; 0 Other;
SQ
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1028 AGAAGTGGG 1037
DB 11 AGAAAGTGGG 2
RESULT 133
ADQ34361
ID ADQ34361 standard; DNA; 11 BP.
XX
XX ADQ34361;
XX
XX 23-SEP-2004 (first entry)
XX
XX Human facial skin-associated DNA fragment SEQ ID NO 2451.
XX
XX facial skin; human; serial analysis of gene expression; SAGE;
KM homeostasis; biochip; cosmetic; pharmaceutical; ds.
XX
XX Homo sapiens.
XX
XX DE10260928-A1.
XX
XX 08-JUL-2004.
XX

PF 20-DEC-2002; 2002DE-01060928.
XX
PR 20-DEC-2002; 2002DE-01060928.
XX
PA (HENK) HENKEL KGAA.
XX
PI Petersohn D, Schlotmann K, Gaessenmeier T, Holtkoetter O;
XX Conradt M, Hofmann K;
XX WPI; 2004-518855/50.
XX
XX In vitro identification of genes important for facial skin, useful for
PT assessing homeostasis and in screening for pharmaceutical or cosmetic
PT agents, based on differential expression analysis.
XX
PS Claim 4; SEQ ID NO 2451; 577bp; German.
XX
CC This invention describes a novel in vitro method for identifying genes
CC that are significant for facial skin in humans. The method comprises
CC recovering, from facial skin, a first mixture of genetically expressed
CC (transcribed and optionally translated) factors (i.e. proteins, mRNA or
CC their fragments), recovering a second, similar mixture from some other
CC human tissue, preferably skin from a protected area, especially from the
CC breast and subjecting the mixtures to serial analysis of gene expression
CC (SAGE) to identify those genes for which expression is markedly different
CC between facial skin and the other tissue. The invention also describes an
CC in vitro method for determining homeostasis of human facial skin; a test
CC kit which comprises a solid support (flexible or rigid) on which are
CC immobilised probes that bind specifically to the factors of interest and
CC a biochip for determining homeostasis of human facial skin. The products
CC of the invention are also used in a method which determines activity of
CC cosmetic and pharmaceutical agents for use against disorders or
CC disturbances of the homeostasis of human skin and a screening method for
CC identifying cosmetic and pharmaceutical agents. The method allows
CC identification of as many as possible of the genes important for facial
CC skin and thus of a very wide range of potential therapeutic and cosmetic
CC agents. ADQ31911-ADQ35111 represent human DNA Tag fragments used to
CC identify the facial skin-associated genes described in the invention.
XX
SQ Sequence 11 BP; 4 A; 3 C; 4 G; 0 T; 0 U; 0 Other;
XX
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 1023 GCCCAGAG 1032
Db 2 GCCCAGAG 11
XX
RESULT 134
ADQ3229
ID ADQ3229 standard; DNA; 11 BP.
XX
AC ADQ3229;
XX
DT 23-SEP-2004 (first entry)
XX
DE Human facial skin-associated DNA fragment SEQ ID NO 1319.
XX
KW facial skin; human; serial analysis of gene expression; SAGE;
KW homeostasis; biochip; cosmetic; pharmaceutical; ds.
XX
OS Homo sapiens.
XX
PN DE10260928-A1.
XX
PD 08-JUL-2004.
XX
PF 20-DEC-2002; 2002DE-01060928.
XX
PR 20-DEC-2002; 2002DE-01060928.
XX

PA (HENK) HENKEL KGAA.
XX
PI Petersohn D, Schlotmann K, Gaessenmeier T, Holtkoetter O;
XX Conradt M, Hofmann K;
XX WPI; 2004-518855/50.
XX
XX In vitro identification of genes important for facial skin, useful for
PT assessing homeostasis and in screening for pharmaceutical or cosmetic
PT agents, based on differential expression analysis.
XX
PS Claim 5; SEQ ID NO 1319; 577bp; German.
XX
CC This invention describes a novel in vitro method for identifying genes
CC that are significant for facial skin in humans. The method comprises
CC recovering, from facial skin, a first mixture of genetically expressed
CC (transcribed and optionally translated) factors (i.e. proteins, mRNA or
CC their fragments), recovering a second, similar mixture from some other
CC human tissue, preferably skin from a protected area, especially from the
CC breast and subjecting the mixtures to serial analysis of gene expression
CC (SAGE) to identify those genes for which expression is markedly different
CC between facial skin and the other tissue. The invention also describes an
CC in vitro method for determining homeostasis of human facial skin; a test
CC kit which comprises a solid support (flexible or rigid) on which are
CC immobilised probes that bind specifically to the factors of interest and
CC a biochip for determining homeostasis of human facial skin. The products
CC of the invention are also used in a method which determines activity of
CC cosmetic and pharmaceutical agents for use against disorders or
CC disturbances of the homeostasis of human skin and a screening method for
CC identifying cosmetic and pharmaceutical agents. The method allows
CC identification of as many as possible of the genes important for facial
CC skin and thus of a very wide range of potential therapeutic and cosmetic
CC agents. ADQ31911-ADQ35111 represent human DNA Tag fragments used to
CC identify the facial skin-associated genes described in the invention.
XX
SQ Sequence 11 BP; 4 A; 4 C; 2 G; 1 T; 0 U; 0 Other;
XX
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 58;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 1021 CTGCCAAGA 1030
Db 2 CTGCCAAGA 11
XX
RESULT 135
ADQ32097
ID ADQ32097 standard; DNA; 11 BP.
XX
AC ADQ32097;
XX
DT 23-SEP-2004 (first entry)
XX
DE Human facial skin-associated DNA fragment SEQ ID NO 187.
XX
KW facial skin; human; serial analysis of gene expression; SAGE;
KW homeostasis; biochip; cosmetic; pharmaceutical; ds.
XX
OS Homo sapiens.
XX
PN DE10260928-A1.
XX
PD 08-JUL-2004.
XX
PF 20-DEC-2002; 2002DE-01060928.
XX
PR 20-DEC-2002; 2002DE-01060928.
XX
PA (HENK) HENKEL KGAA.
XX
PI Petersohn D, Schlotmann K, Gaessenmeier T, Holtkoetter O;
XX Conradt M, Hofmann K;
XX

XX WPI; 2004-518855/50.
 XX In vitro identification of genes important for facial skin, useful for
 PT assessing homeostasis and in screening for pharmaceutical or cosmetic
 PT agents, based on differential expression analysis.
 XX
 XX Claim 9; SEQ ID NO 187; 577pp; German.
 XX
 CC This invention describes a novel in vitro method for identifying genes
 CC that are significant for facial skin in humans. The method comprises
 CC recovering, from facial skin, a first mixture of genetically expressed
 CC (transcribed and optionally translated) factors (i.e. proteins, mRNA or
 CC their fragments), recovering a second, similar mixture from some other
 CC human tissue, preferably skin from a protected area, especially from the
 CC breast and subjecting the mixtures to serial analysis of gene expression
 CC (SAGE) to identify those genes for which expression is markedly different
 CC between facial skin and the other tissue. The invention also describes an
 CC in vitro method for determining homeostasis of human facial skin; a test
 CC kit which comprises a solid support (flexible or rigid) on which are
 CC immobilised probes that bind specifically to the factors of interest and
 CC a biochip for determining homeostasis of human facial skin. The products
 CC of the invention are also used in a method which determines activity of
 CC cosmetic and pharmaceutical agents for use against disorders or
 CC disturbances of the homeostasis of human skin and a screening method for
 CC identifying cosmetic and pharmaceutical agents. The method allows
 CC identification of as many as possible of the genes important for facial
 CC skin and thus of a very wide range of potential therapeutic and cosmetic
 CC agents. ADQ31911-ADQ3511 represent human DNA Tag fragments used to
 CC identify the facial skin-associated genes described in the invention.
 XX
 SQ Sequence 11 BP; 6 A; 0 C; 4 G; 1 T; 0 U; 0 Other;
 XX
 QY Query Match 42.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 58;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 XX
 QY 1027 AAGAAAGTGG 1036
 |||||
 Db 2 AAGAAAGTGG 11
 XX
 RESULT 136
 AAT09397
 ID AAT09397 standard; DNA; 8 BP.
 XX
 AC AAT09397;
 XX
 DT 25-MAR-2003 (revised)
 DT 21-JUN-1996 (first entry)
 XX
 DE 5'-primer used for characterisation of human biological samples.
 XX
 KM 5'-primer; human; protein coding region; PCR primer kit;
 KM characterisation; biological samples; PCR amplification; indexing;
 KM identification; cloning; analysis; genes; genome mapping;
 KM disease diagnosis; ss.
 XX
 PI Lopeznielo CE, Nigam SK;
 XX
 OS Synthetic.
 XX
 PN WO9531574-A1.
 XX
 PD 23-NOV-1995.
 XX
 PF 12-MAY-1995; 95WO-US006032.
 XX
 PR 16-MAY-1994; 94US-00242887.
 XX
 PA (BGHM) BRIGHAM & WOMENS HOSPITAL.
 XX
 PI Lopeznielo CE, Nigam SK;
 XX
 DR WPI; 1996-010958/01.

XX
 PT Characterisation of nucleotide sequences using primer pairs - by PCR
 PT amplification and indexing of amplification prods. w.r.t. primers used
 PT for genome mapping and disease diagnosis.
 XX
 XX Claim 5; Page 44; 72pp; English.
 XX
 CC The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which
 CC target human protein coding regions, together comprise a PCR primer kit
 CC with 1361 possible primer pairs. The kit is used in a new method for the
 CC characterisation of nucleic acid sequences obtd. from human biological
 CC samples, which comprises PCR amplification and indexing of the prods.
 CC w.r.t the primer pair that hybridised to its delineating subsequences.
 CC The method may be used in the identification, cloning and analysis of
 CC genes, e.g. in genome mapping, and disease diagnosis. (Updated on 25-MAR-
 CC 2003 to correct PI field.)
 XX
 SQ Sequence 8 BP; 4 A; 1 C; 3 G; 0 T; 0 U; 0 Other;
 XX
 QY Query Match 40.0%; Score 8; DB 1; Length 8;
 Best Local Similarity 100.0%; Pred. No. 4,8e+02;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 QY 1026 CAAGAAGG 1033
 |||||
 Db 1 CAAGAAGG 8
 XX
 RESULT 137
 AAT09546/C
 ID AAT09546 standard; DNA; 8 BP.
 XX
 AC AAT09546;
 XX
 DT 25-MAR-2003 (revised)
 DT 25-JUN-1996 (first entry)
 XX
 DE 3'-primer used for characterisation of human biological samples.
 XX
 KM 3'-primer; human; protein coding region; PCR primer kit;
 KM characterisation; biological samples; PCR amplification; indexing;
 KM identification; cloning; analysis; genes; genome mapping;
 KM disease diagnosis; ss.
 XX
 OS Synthetic.
 XX
 PN WO9531574-A1.
 XX
 PD 23-NOV-1995.
 XX
 PF 12-MAY-1995; 95WO-US006032.
 XX
 PR 16-MAY-1994; 94US-00242887.
 XX
 PA (BGHM) BRIGHAM & WOMENS HOSPITAL.
 XX
 PI Lopeznielo CE, Nigam SK;
 XX
 OS Synthetic.
 XX
 DR WPI; 1996-010958/01.
 XX
 PT Characterisation of nucleotide sequences using primer pairs - by PCR
 PT amplification and indexing of amplification prods. w.r.t. primers used
 PT for genome mapping and disease diagnosis.
 XX
 XX Disclousure; Page 19; 72pp; English.
 XX
 CC The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which
 CC target human protein coding regions, together comprise a PCR primer kit
 CC with 1361 possible primer pairs. The kit is used in a new method for the
 CC characterisation of nucleic acid sequences obtd. from human biological
 CC samples, which comprises PCR amplification and indexing of the prods.
 CC w.r.t the primer pair that hybridised to its delineating subsequences.
 CC The method may be used in the identification, cloning and analysis of

CC Genes, e.g. in genome mapping, and disease diagnosis. (Updated on 25-MAR-2003 to correct PI field.)

CC 2003 to correct PI field.)

Sequence 8 BP; 0 A; 3 C; 1 G; 4 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 4.8e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1026 CCAAGAG 1033
|||||||
8 CCAAGAG 1

RESULT 138

AAT09415
ID AAT09415 standard; DNA; 8 BP.

AC AAT09415;

XX 25-MAR-2003 (revised)
DT 21-JUN-1996 (first entry)

XX 5'-primer used for characterisation of human biological samples.

XX 5'-primer; human; protein coding region; PCR primer kit;
KW characterisation; biological samples; PCR amplification; indexing;
KW identification; cloning; analysis; genes; genome mapping;
KW disease diagnosis; ss.

XX Synthetic.

XX WO9531574-A1.

XX 23-NOV-1995.

XX 12-MAY-1995; 95WO-US006032.

XX 16-MAY-1994; 94US-00242887.

XX (BGHM) BRIGHAM & WOMENS HOSPITAL.

XX Lopeznielo CE, Nigam SK;

XX WPI; 1996-010958/01.

XX Characterisation of nucleotide sequences using primer pairs - by PCR
PT amplification and indexing of amplification prods. w.r.t. primers used
PT for genome mapping and disease diagnosis.

XX Claim 5; Page 44; 72pp; English.

XX The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which
CC target human protein coding regions, together comprise a PCR primer kit
CC with 1361 possible primer pairs. The kit is used in a new method for the
CC characterisation of nucleic acid sequences obtd. from human biological
CC samples, which comprises PCR amplification and indexing of the prods.
CC w.r.t. the primer pair that hybridised to its delineating subsequences.
CC The method may be used in the identification, cloning and analysis of
CC genes, e.g. in genome mapping, and disease diagnosis. (Updated on 25-MAR-
CC 2003 to correct PI field.)

XX Sequence 8 BP; 4 A; 2 C; 2 G; 0 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 4.8e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1025 CCAAGAG 1032
|||||||
1 CCAAGAG 8

RESULT 139
AAT09568/c
ID AAT09568 standard; DNA; 8 BP.

AC AAT09568;

XX 25-MAR-2003 (revised)
DT 25-JUN-1996 (first entry)

XX 3'-primer used for characterisation of human biological samples.

XX 3'-primer; human; protein coding region; PCR primer kit;
KW characterisation; biological samples; PCR amplification; indexing;
KW identification; cloning; analysis; genes; genome mapping;
KW disease diagnosis; ss.

XX Synthetic.

XX WO9531574-A1.

XX 23-NOV-1995.

XX 12-MAY-1995; 95WO-US006032.

XX 16-MAY-1994; 94US-00242887.

XX (BGHM) BRIGHAM & WOMENS HOSPITAL.

XX Lopeznielo CE, Nigam SK;

XX WPI; 1996-010958/01.

XX Characterisation of nucleotide sequences using primer pairs - by PCR
PT amplification and indexing of amplification prods. w.r.t. primers used
PT for genome mapping and disease diagnosis.

XX Disclosure; Page 19; 72pp; English.

XX The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which
CC target human protein coding regions, together comprise a PCR primer kit
CC with 1361 possible primer pairs. The kit is used in a new method for the
CC characterisation of nucleic acid sequences obtd. from human biological
CC samples, which comprises PCR amplification and indexing of the prods.
CC w.r.t. the primer pair that hybridised to its delineating subsequences.
CC The method may be used in the identification, cloning and analysis of
CC genes, e.g. in genome mapping, and disease diagnosis. (Updated on 25-MAR-
CC 2003 to correct PI field.)

XX Sequence 8 BP; 0 A; 2 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 4.8e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1025 CCAAGAG 1032
|||||||
8 CCAAGAG 1

RESULT 140

ABQ71965
ID ABQ71965 standard; DNA; 9 BP.

AC ABQ71965;

XX 28-AUG-2002 (first entry)

XX Zinc finger protein related oligonucleotide target SEQ ID NO:2263.

XX Zinc finger protein; ZFP; DNA binding protein; zinc finger; ss.

XX Homo sapiens.

OS Synthetic.

```

XX  MO200242459-A2.
XX
XX  30-MAY-2002.
XX
XX  20-NOV-2001; 2001WO-US043438.
XX
XX  20-NOV-2000; 2000US-00716637.
XX
XX  (SANG-) SANGAMO BIOSCIENCES INC.
XX
XX  Liu Q;
XX
XX  WPI; 2002-500284/53.
XX
XX  New zinc finger protein that binds to target site, useful in studying
XX  gene function and for human therapeutics and plant engineering, comprises
XX  first, second and third zinc fingers, ordered from N- to C-terminus.
XX
XX  Example 1; Page 59; 81pp; English.
XX
XX  The present invention describes a zinc finger protein (I) that binds to a
XX  target site, comprising a first (F1), a second (F2), and a third (F3)
XX  zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
XX  target site comprises, in 3'-5' direction, a first (S1), a second (S2),
XX  and a third (S3) target sub-site. Also described are: (1) a polypeptide
XX  (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
XX  (3) designing (M) (I) involves selecting the F1 zinc finger such that it
XX  binds to the S1 target sub-site, selecting the F2 zinc finger such that it
XX  binds to the S2 target sub-site, and selecting the F3 zinc finger such
XX  that it binds to the S3 target sub-site, thus designing (I) that binds to
XX  a target site. (I) is useful for recognition of triplet target sub-sites
XX  having the nucleotide G in the 5'-most position of the sub-site. (I) is
XX  useful in studying gene function, and for human therapeutics and plant
XX  engineering. (I), (II) or (III) is useful in therapeutic methods to
XX  modulate the expression of a target region within a subject. In
XX  diagnostic methods for sequence specific detection of target nucleic acid
XX  in a sample, and in assays to determine the phenotype and function of
XX  gene expression. (I) has improved affinity and specificity for their
XX  target sequences, as well as enhanced biological activity. ABO71213 to
XX  ABO72214 and ABO748191 to ABO751230 represent DNA target sequences and zinc
XX  finger peptides which are given in the exemplification of the present
XX  invention.
XX
XX  Sequence 9 BP; 3 A; 0 C; 5 G; 1 T; 0 U; 0 Other;
XX
XX  Query Match 40.0%; Score 8; DB 1; Length 9;
XX  Best Local Similarity 100.0%; Pred. No. 4.3e+02;
XX  Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX  QY 1028 AGAAGGTG 1035
XX  |||||
XX  2 AGAAGGTG 9
XX
XX  RESULT 141
XX  ABO71964
XX  ID ABO71964 standard; DNA; 9 BP.
XX
XX  AC ABO71964;
XX
XX  DT 28-AUG-2002 (first entry)
XX
XX  DE Zinc finger protein related oligonucleotide target SEQ ID NO:2262.
XX
XX  KM Zinc finger protein; ZFP; DNA binding protein; zinc finger; ss.
XX
XX  OS Homo sapiens.
XX  OS Synthetic.
XX  OS MO200242459-A2.
XX  OS 30-MAY-2002.
XX

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XX  20-NOV-2001; 2001WO-US043438.
XX
XX  20-NOV-2000; 2000US-00716637.
XX
XX  (SANG-) SANGAMO BIOSCIENCES INC.
XX
XX  Liu Q;
XX
XX  WPI; 2002-500284/53.
XX
XX  New zinc finger protein that binds to target site, useful in studying
XX  gene function and for human therapeutics and plant engineering, comprises
XX  first, second and third zinc fingers, ordered from N- to C-terminus.
XX
XX  Example 1; Page 59; 81pp; English.
XX
XX  The present invention describes a zinc finger protein (I) that binds to a
XX  target site, comprising a first (F1), a second (F2), and a third (F3)
XX  zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
XX  target site comprises, in 3'-5' direction, a first (S1), a second (S2),
XX  and a third (S3) target sub-site. Also described are: (1) a polypeptide
XX  (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
XX  (3) designing (M) (I) involves selecting the F1 zinc finger such that it
XX  binds to the S1 target sub-site, selecting the F2 zinc finger such that it
XX  binds to the S2 target sub-site, and selecting the F3 zinc finger such
XX  that it binds to the S3 target sub-site, thus designing (I) that binds to
XX  a target site. (I) is useful for recognition of triplet target sub-sites
XX  having the nucleotide G in the 5'-most position of the sub-site. (I) is
XX  useful in studying gene function, and for human therapeutics and plant
XX  engineering. (I), (II) or (III) is useful in therapeutic methods to
XX  modulate the expression of a target region within a subject. In
XX  diagnostic methods for sequence specific detection of target nucleic acid
XX  in a sample, and in assays to determine the phenotype and function of
XX  gene expression. (I) has improved affinity and specificity for their
XX  target sequences, as well as enhanced biological activity. ABO71213 to
XX  ABO72214 and ABO748191 to ABO751230 represent DNA target sequences and zinc
XX  finger peptides which are given in the exemplification of the present
XX  invention.
XX
XX  Sequence 9 BP; 3 A; 0 C; 5 G; 1 T; 0 U; 0 Other;
XX
XX  Query Match 40.0%; Score 8; DB 1; Length 9;
XX  Best Local Similarity 100.0%; Pred. No. 4.3e+02;
XX  Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX  QY 1028 AGAAGGTG 1035
XX  |||||
XX  2 AGAAGGTG 9
XX
XX  RESULT 142
XX  ABO71781
XX  ID ABO71781 standard; DNA; 9 BP.
XX
XX  AC ABO71781;
XX
XX  DT 28-AUG-2002 (first entry)
XX
XX  DE Zinc finger protein related oligonucleotide target SEQ ID NO:2079.
XX
XX  KM Zinc finger protein; ZFP; DNA binding protein; zinc finger; ss.
XX
XX  OS Homo sapiens.
XX  OS Synthetic.
XX  OS MO200242459-A2.
XX  OS 30-MAY-2002.
XX
XX  20-NOV-2001; 2001WO-US043438.
XX  20-NOV-2000; 2000US-00716637.
XX

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PA	(LUPP//) LIU P.
PA	(MOLFE//) MOLFE A.
PA	(EISE//) EISENBERG S P.
PA	(JARV//) JARVIS E.
PI	Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;
PI	Jarvis E;
XX	WPI: 2003-456550/43.
DR	
XX	
PT	New zinc finger protein that binds to a target site in the human vascular
PT	endothelial growth factor gene, useful for regulating angiogenesis, e.g.
PT	in the treatment of atherosclerosis, ischemia, arthritis, tumors, ulcer
PT	or wounds.
XX	
PS	Example 6; Page 42; 75pp; English.
XX	
CC	The invention describes a zinc finger protein (ZFP) that binds to a
CC	target site having a nucleotide sequence of any of the human vascular
CC	endothelial growth factor (VEGF) genes listed in the specification. The
CC	composition and methods are useful in regulating angiogenesis, such as in
CC	the treatment of atherosclerosis, ischaemia, arthritis, tumors,
CC	psoriasis, diabetic retinopathy, ulcer or wounds. The composition may
CC	also be used in screening for agents capable of modulating angiogenesis,
CC	and in various diagnostic applications. This sequence represents a
CC	vascular endothelial growth factor (VEGF) targeting zinc finger protein
CC	zinc finger domain target DNA
XX	
SO	Sequence 9 BP; 2 A; 2 C; 4 G; 1 T; 0 U; 0 Other;
Query Match	40.0%; Score 8; DB 1; Length 9;
Best Local Similarity	100.0%; Pred. No. 4.3e+02;
Matches 8; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
Oy	1020 TCTGCCCA 1027
Db	8 TCTGCCCA 1
RESULT 145	
ACD19256/C	
ID	ACD19256 standard; DNA; 9 BP.
XX	
AC	ACD19256;
XX	
DT	22-AUG-2003 (first entry)
XX	
DE	Human VEGF-targeted ZFP HUM 19A target sequence.
XX	
KM	Zinc finger protein; vascular endothelial growth factor; VEGF; ischaemia;
KM	atherosclerosis; tumour; arthritis; bone injury; wound; ulcer; surgery;
XX	angiogenesis; pregnancy; embryogenesis; ds; human.
OS	Homo sapiens.
XX	
PN	US2003021776-A1.
XX	
PD	30-JAN-2003.
XX	
PF	06-DEC-2001; 2001US-00006069.
XX	
PR	07-DEC-2000; 2000US-00733604.
PR	12-DEC-2000; 2000US-00736083.
PR	30-APR-2001; 2001US-00846033.
XX	
PA	(SANG-) SANGAMO BIOSCIENCES INC.
XX	
PI	Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;
PI	Jarvis E;
XX	
DR	WPI: 2003-466074/44.
XX	
PT	Novel zinc finger protein that binds to a target site, useful for

PT	modulating vascular endothelial growth factor gene expression, for
PT	modulating angiogenesis, for wound healing and for treating ischemia.
XX	
XX	Disclosure; Page 43; 120pp; English.
PS	
CC	The invention relates to a zinc finger protein that binds to a target
CC	site. The zinc finger protein is useful for modulating expression of a
CC	vascular endothelial growth factor (VEGF) gene. The expression of a
CC	number of splice variants of VEGF gene is modulated. A number of target
CC	sites are contacted with a number of zinc finger proteins and each zinc
CC	finger protein binds to a distinct target site. The zinc finger protein
CC	is administered in combination with a delivery vehicle, or its nucleic
CC	acid is administered into the cell, either in naked form or delivered in
CC	an expression vector. The zinc finger protein or nucleic acid is useful
CC	for treating a disease or injury such as atherosclerosis, ischaemia,
CC	tumour, arthritis, bone injury, wounds and ulcer in a subject. The zinc
CC	finger protein is also useful for modulating angiogenesis, by introducing
CC	the zinc finger protein into an animal, where the animal has a genome
CC	comprising a target site within a VEGF gene. The zinc finger protein is
CC	also useful for screening for a modulator of expression of a VEGF gene.
CC	The zinc finger protein and nucleic acid are also useful to promote
CC	development of the corpus luteum and endometrium, which is useful for
CC	initiating and/or maintaining pregnancy and for supporting embryogenesis.
CC	The zinc finger protein and its nucleic acid are also useful in surgical
CC	applications. The present sequence represents a human VEGF targeted zinc
CC	finger protein ZFP target sequence
XX	
SQ	Sequence 9 BP; 2 A; 2 C; 4 G; 1 T; 0 U; 0 Other;
Qy	Query Match 40.0%; Score 8; DB 1; length 9;
	Best Local Similarity 100.0%; Pred. No. 4.3e+02;
	Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Dy	1020 TCTGCCCA 1027
	8 TCTGCCCA 1
RESULT 146	
ADA64108	
ID	ADA64108 standard; DNA; 9 BP.
XX	
AC	ADA64108;
XX	
DT	20-NOV-2003 (first entry)
XX	
DE	Zinc finger target sequence DNA #566.
XX	
KW	de; target sequence; zinc finger protein;
KW	multi-finger zinc finger protein; improved affinity;
XX	improved specificity; enhanced biological activity.
OS	Synthetic.
XX	
PN	US2003068675-A1.
XX	
PD	10-APR-2003.
XX	
PF	20-NOV-2001; 2001US-00990186.
XX	
PR	24-MAR-1999; 99US-0126238P.
PR	24-MAR-1999; 99US-0126239P.
PR	30-JUL-1999; 99US-0146595P.
PR	30-JUL-1999; 99US-0146615P.
PR	23-MAR-2000; 2000US-00535008.
PR	20-NOV-2000; 2000US-00716537.
XX	
PA	(LIUQ/) LIU Q.
XX	
PI	LIU Q;
XX	
RP	WPI; 2003-567233/53.
XX	

PT Designing zinc finger protein that has three zinc fingers from N-terminus
PT and C-terminus that bind to subsites in 3' to 5' direction, in a target
PT site, by selecting zinc fingers that bind their respective subsites.
XX
XX
PS Disclosure; Page 22; 34pp; English.
XX
CC The invention relates to a method of designing a zinc finger protein. The
CC method is useful for designing a zinc finger protein. The method provides
CC multi-finger zinc finger proteins with improved affinity and specificity
CC for their target sequences, as well as enhanced biological activity. The
CC present sequence represents a zinc finger protein DNA target sequence.
XX
SQ Sequence 9 BP; 2 A; 1 C; 5 G; 1 T; 0 U; 0 Other;
QY
Db 1030 AAGCTGGG 1037
1 AAGCTGGG 8
Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.3e+02; Indels 0; Gaps 0;
Matches 8; Conservative 0; Mismatches 0;
RESULT 147
ADA64291
ID ADA64291 standard; DNA; 9 BP.
AC ADA64291;
XX
DT 20-NOV-2003 (first entry)
XX
DE Zinc finger target sequence DNA #749.
XX
KM ds; target sequence; zinc finger protein;
KM multi-finger zinc finger protein; improved affinity;
KM improved specificity; enhanced biological activity.
XX
XX Synthetic.
OS
XX
PN US2003068675-A1.
XX
PD 10-APR-2003.
XX
PF 20-NOV-2001; 2001US-00990186.
XX
PR 24-MAR-1999; 99US-0126238P.
PR 24-MAR-1999; 99US-0126239P.
PR 30-JUL-1999; 99US-0146595P.
PR 30-JUL-1999; 99US-0146615P.
PR 23-MAR-2000; 2000US-00535008.
PR 20-NOV-2000; 2000US-00716637.
XX
PA (LIUQ/) LIU Q.
XX
PI Liu Q;
XX
DR WPI; 2003-567233/53.
XX
PT Designing zinc finger protein that has three zinc fingers from N-terminus
PT and C-terminus that bind to subsites in 3' to 5' direction, in a target
PT site, by selecting zinc fingers that bind their respective subsites.
XX
XX Disclosure; Page 24; 34pp; English.
XX
CC The invention relates to a method of designing a zinc finger protein. The
CC method is useful for designing a zinc finger protein. The method provides
CC multi-finger zinc finger proteins with improved affinity and specificity
CC for their target sequences, as well as enhanced biological activity. The
CC present sequence represents a zinc finger protein DNA target sequence.
XX
SQ Sequence 9 BP; 3 A; 0 C; 5 G; 1 T; 0 U; 0 Other;
QY
Db 40.0%; Score 8; DB 1; Length 9;
Query Match 40.0%; Score 8; DB 1; Length 9;

Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1028 AGAAGGTG 1035
2 AGAAGGTG 9
Db
RESULT 148
ADA64292
ID ADA64292 standard; DNA; 9 BP.
XX
AC ADA64292;
XX
DT 20-NOV-2003 (first entry)
XX
DE Zinc finger target sequence DNA #750.
XX
KM ds; target sequence; zinc finger protein;
KM multi-finger zinc finger protein; improved affinity;
KM improved specificity; enhanced biological activity.
XX
XX Synthetic.
OS
XX
PN US2003068675-A1.
XX
PD 10-APR-2003.
XX
PF 20-NOV-2001; 2001US-00990186.
XX
PR 24-MAR-1999; 99US-0126238P.
PR 24-MAR-1999; 99US-0126239P.
PR 30-JUL-1999; 99US-0146595P.
PR 30-JUL-1999; 99US-0146615P.
PR 23-MAR-2000; 2000US-00535008.
PR 20-NOV-2000; 2000US-00716637.
XX
PA (LIUQ/) LIU Q.
XX
PI Liu Q;
XX
DR WPI; 2003-567233/53.
XX
PT Designing zinc finger protein that has three zinc fingers from N-terminus
PT and C-terminus that bind to subsites in 3' to 5' direction, in a target
PT site, by selecting zinc fingers that bind their respective subsites.
XX
XX Disclosure; Page 24; 34pp; English.
XX
CC The invention relates to a method of designing a zinc finger protein. The
CC method is useful for designing a zinc finger protein. The method provides
CC multi-finger zinc finger proteins with improved affinity and specificity
CC for their target sequences, as well as enhanced biological activity. The
CC present sequence represents a zinc finger protein DNA target sequence.
XX
SQ Sequence 9 BP; 3 A; 0 C; 5 G; 1 T; 0 U; 0 Other;
QY
Db 1028 AGAAGGTG 1035
2 AGAAGGTG 9
Db
RESULT 149
ADA64107
ID ADA64107 standard; DNA; 9 BP.
AC ADA64107;
XX
DT 20-NOV-2003 (first entry)

XX zinc finger target sequence DNA #565.
DE
XX
KM ds; target sequence; zinc finger protein;
KM multi-finger zinc finger protein; improved affinity;
KM improved specificity; enhanced biological activity.
XX
OS Synthetic.
XX
FN US2003068675-A1.
XX
PD 10-APR-2003.
XX
PF 20-NOV-2001; 2001US-00990186.
XX
PR 24-MAR-1999; 99US-0126238P.
PR 24-MAR-1999; 99US-0126239P.
PR 30-JUL-1999; 99US-0146595P.
PR 30-JUL-1999; 99US-0146615P.
PR 23-MAR-2000; 2000US-00535008.
PR 20-NOV-2000; 2000US-00716637.
XX
PA (LIUQ/) LIU Q.
XX
PI Liu Q;
XX
DR WPI; 2003-567233/53.
XX
PT Designing zinc finger protein that has three zinc fingers from N-terminus
PT and C-terminus that bind to subsites in 3' to 5' direction, in a target
PT site, by selecting zinc fingers that bind their respective subsites.
XX
PS Disclosure; Page 22; 34pp; English.
XX
CC The invention relates to a method of designing a zinc finger protein. The
CC method is useful for designing a zinc finger protein. The method provides
CC multi-finger zinc finger proteins with improved affinity and specificity
CC for their target sequences, as well as enhanced biological activity. The
CC present sequence represents a zinc finger protein DNA target sequence.
XX
SQ Sequence 9 BP; 2 A; 1 C; 5 G; 1 T; 0 U; 0 Other;
XX
Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.3e+02; Indels 0; Gaps 0;
Matches 8; Conservative 0; Mismatches 0;
QY 1030 AACGTGGG 1037
Db 1 AACGTGGG 8
XX
RESULT 150
ADM22799
ID ADM22799 standard; DNA; 9 BP.
XX
AC ADM22799;
XX
DT 20-MAY-2004 (first entry)
XX
DE Synthetic zinc finger protein target DNA #565.
XX
KM zinc finger protein; triplet target subsite; zinc finger motif; sp-1; ds.
XX
OS Unidentified.
XX
FN US2003104526-A1.
XX
PD 05-JUN-2003.
XX
PF 20-NOV-2001; 2001US-00989994.
XX
PR 24-MAR-1999; 99US-0126238P.
PR 24-MAR-1999; 99US-0126239P.

PR 30-JUL-1999; 99US-0146595P.
PR 30-JUL-1999; 99US-0146615P.
PR 23-MAR-2000; 2000US-00535008.
PR 20-NOV-2000; 2000US-00716637.
XX
PA (LIUQ/) LIU Q.
XX
PI Liu Q;
XX
DR WPI; 2003-843091/78.
XX
PT New zinc finger protein used for recognizing triplet target subsites
PT having nucleotide G in 5'-most position of subsite, that has been
PT optimized with respect to location of subsite within target site.
XX
PS Example 6; SEQ ID NO 2078; 48pp; English.
XX
CC The invention describes a new zinc finger protein that binds to a target
CC site comprising a first (F1), a second (F2) or a third (F3) zinc finger,
CC ordered F1, F2 and F3 from N-terminus to C-terminus. The target site
CC comprises, in the 3' to 5' direction, first (S1), second (S2) and third
CC (S3) target subsites. The zinc finger proteins can be used for
CC recognising triplet target subsites having the nucleotide G in the 5'-
CC most position of the subsite, that has been optimised with respect to the
CC location of the subsite within the target site. This sequence represents
CC the target polynucleotide to which the zinc finger protein sp-1 consensus
CC sequence binds.
XX
SQ Sequence 9 BP; 2 A; 1 C; 5 G; 1 T; 0 U; 0 Other;
XX
Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.3e+02; Indels 0; Gaps 0;
Matches 8; Conservative 0; Mismatches 0;
QY 1030 AACGTGGG 1037
Db 1 AACGTGGG 8
XX
RESULT 151
ADM22984
ID ADM22984 standard; DNA; 9 BP.
XX
AC ADM22984;
XX
DT 20-MAY-2004 (first entry)
XX
DE Synthetic zinc finger protein target DNA #750.
XX
KM zinc finger protein; triplet target subsite; zinc finger motif; sp-1; ds.
XX
OS Unidentified.
XX
FN US2003104526-A1.
XX
PD 05-JUN-2003.
XX
PF 20-NOV-2001; 2001US-00989994.
XX
PR 24-MAR-1999; 99US-0126238P.
PR 24-MAR-1999; 99US-0126239P.
PR 30-JUL-1999; 99US-0146595P.
PR 30-JUL-1999; 99US-0146615P.
PR 23-MAR-2000; 2000US-00535008.
PR 20-NOV-2000; 2000US-00716637.
XX
PA (LIUQ/) LIU Q.
XX
PI Liu Q;
XX
DR WPI; 2003-843091/78.
XX
PT New zinc finger protein used for recognizing triplet target subsites

PT having nucleotide G in 5'-most position of subsite, that has been
PT optimized with respect to location of subsite within target site.
XX
PS Example 6; SEQ ID NO 2263; 48bp; English.
XX
CC The invention describes a new zinc finger protein that binds to a target
CC site comprising a first (F1), a second (F2) or a third (F3) zinc finger,
CC ordered F1, F2 and F3 from N-terminus to C-terminus. The target site
CC comprises, in the 3' to 5' direction, first (S1), second (S2) and third
CC (S3) target subsites. The zinc finger proteins can be used for
CC recognising triplet target subsites having the nucleotide G in the 5'-
CC most position of the subsite, that has been optimised with respect to the
CC location of the subsite within the target site. This sequence represents
CC the target polynucleotide to which the zinc finger protein sp-1 consensus
CC sequence binds.
XX
SQ Sequence 9 BP; 3 A; 0 C; 5 G; 1 T; 0 U; 0 Other;
XX
Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1028 AGAAGGTG 1035
Db 2 AGAAGGTG 9
XX
RESULT 152
ADM22983
ID ADM22983 standard; DNA; 9 BP.
XX
AC ADM22983;
XX
DT 20-MAY-2004 (first entry)
XX
DE Synthetic zinc finger protein target DNA #749.
XX
KM zinc finger protein; triplet target subsite; zinc finger motif; sp-1; ds.
XX
OS Unidentified.
XX
PN US2003104526-A1.
PD 05-JUN-2003.
XX
PF 20-NOV-2001; 2001US-00989994.
XX
PR 24-MAR-1999; 99US-0126238P.
PR 24-MAR-1999; 99US-0126239P.
PR 30-JUL-1999; 99US-0146595P.
PR 30-JUL-1999; 99US-0146615P.
PR 23-MAR-2000; 2000US-00535008.
PR 20-NOV-2000; 2000US-00716637.
XX
PA (LIUQ/) LIU Q.
XX
PI Liu Q;
XX
DR WPI; 2003-843091/78.
XX
PT New zinc finger protein used for recognizing triplet target subsites
PT having nucleotide G in 5'-most position of subsite, that has been
PT optimized with respect to location of subsite within target site.
XX
PS Example 6; SEQ ID NO 2262; 48bp; English.
XX
CC The invention describes a new zinc finger protein that binds to a target
CC site comprising a first (F1), a second (F2) or a third (F3) zinc finger,
CC ordered F1, F2 and F3 from N-terminus to C-terminus. The target site
CC comprises, in the 3' to 5' direction, first (S1), second (S2) and third
CC (S3) target subsites. The zinc finger proteins can be used for
CC recognising triplet target subsites having the nucleotide G in the 5'-
CC most position of the subsite, that has been optimised with respect to the

CC location of the subsite within the target site. This sequence represents
CC the target polynucleotide to which the zinc finger protein sp-1 consensus
CC sequence binds.
XX
SQ Sequence 9 BP; 3 A; 0 C; 5 G; 1 T; 0 U; 0 Other;
XX
Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1028 AGAAGGTG 1035
Db 2 AGAAGGTG 9
XX
RESULT 153
ADM22800
ID ADM22800 standard; DNA; 9 BP.
XX
AC ADM22800;
XX
DT 20-MAY-2004 (first entry)
XX
DE Synthetic zinc finger protein target DNA #566.
XX
KM zinc finger protein; triplet target subsite; zinc finger motif; sp-1; ds.
XX
OS Unidentified.
XX
PN US2003104526-A1.
PD 05-JUN-2003.
XX
PF 20-NOV-2001; 2001US-00989994.
XX
PR 24-MAR-1999; 99US-0126238P.
PR 24-MAR-1999; 99US-0126239P.
PR 30-JUL-1999; 99US-0146595P.
PR 30-JUL-1999; 99US-0146615P.
PR 23-MAR-2000; 2000US-00535008.
PR 20-NOV-2000; 2000US-00716637.
XX
PA (LIUQ/) LIU Q.
XX
PI Liu Q;
XX
DR WPI; 2003-843091/78.
XX
PT New zinc finger protein used for recognizing triplet target subsites
PT having nucleotide G in 5'-most position of subsite, that has been
PT optimized with respect to location of subsite within target site.
XX
PS Example 6; SEQ ID NO 2079; 48bp; English.
XX
CC The invention describes a new zinc finger protein that binds to a target
CC site comprising a first (F1), a second (F2) or a third (F3) zinc finger,
CC ordered F1, F2 and F3 from N-terminus to C-terminus. The target site
CC comprises, in the 3' to 5' direction, first (S1), second (S2) and third
CC (S3) target subsites. The zinc finger proteins can be used for
CC recognising triplet target subsites having the nucleotide G in the 5'-
CC most position of the subsite, that has been optimised with respect to the
CC location of the subsite within the target site. This sequence represents
CC the target polynucleotide to which the zinc finger protein sp-1 consensus
CC sequence binds.
XX
SQ Sequence 9 BP; 2 A; 1 C; 5 G; 1 T; 0 U; 0 Other;
XX
Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1030 AAGTGGG 1037
XX

Db 1 AACGTGCG 8

RESULT 154

AAZ79378 ID AAZ79378 standard; DNA, 10 BP.

XX AAZ79378;

AC 10-APR-2000 (first entry)

XX

XX Human dendritic cell SAGE tag, SEQ ID NO:1806.

XX

XX SAGE tag: serial analysis of gene expression; antigen-presenting cell;

KW APC; monocyte-derived dendritic cell; differential gene expression;

KW immunostimulatory cofactor; costimulatory factor; CTL;

KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.

XX Homo sapiens.

XX MO9965924-A2.

XX

XX 23-DEC-1999.

XX

PF 18-JUN-1999; 99WO-US013800.

XX

PR 19-JUN-1998; 98US-0089833P.

PR 19-JUN-1998; 98US-0089844P.

PR 19-JUN-1998; 98US-0089853P.

PR 19-JUN-1998; 98US-0089878P.

PR 19-JUN-1998; 98US-0089919P.

PR 19-JUN-1998; 98US-0089932P.

PR 19-JUN-1998; 98US-0089933P.

PR 19-JUN-1998; 98US-0089949P.

PR 19-JUN-1998; 98US-0089997P.

PR 19-JUN-1998; 98US-0089999P.

PR 19-JUN-1998; 98US-0090000P.

PR 19-JUN-1998; 98US-0090035P.

PR 19-JUN-1998; 98US-0090036P.

PR 19-JUN-1998; 98US-0090039P.

PR 19-JUN-1998; 98US-0090040P.

PR 19-JUN-1998; 98US-0090041P.

PR 19-JUN-1998; 98US-0090042P.

PR 19-JUN-1998; 98US-0090043P.

PR 19-JUN-1998; 98US-0090044P.

PR 19-JUN-1998; 98US-0090045P.

PR 19-JUN-1998; 98US-0090047P.

PR 19-JUN-1998; 98US-0090072P.

PR 19-JUN-1998; 98US-0090076P.

PR 19-JUN-1998; 98US-0090077P.

PR 19-JUN-1998; 98US-0090078P.

PR 19-JUN-1998; 98US-0090079P.

PR 19-JUN-1998; 98US-0090080P.

PR 08-DEC-1998; 98US-0111715P.

XX

XX (GENZ) GENZYME CORP.

PA (ROBE/) ROBERTS B L.

PA (SHAN/) SHANKARA S.

XX

PI Roberete BL, Shankara S;

XX

XX WPI; 2000-106077/09.

XX

XX Isolated polynucleotides differentially expressed in antigen-presenting

PT cells, useful in gene vaccines against cancer.

XX

XX Claim 1, Page 116; 130pp; English.

XX

XX Sequences AAZ77573-279709 represent SAGE (serial analysis of gene

CC expression) tags used to identify mRNA transcripts encoding

CC immunostimulatory cofactor proteins which are preferentially or

CC differentially expressed in monocyte-derived dendritic cells compared

CC with monocytes. Some of the transcripts correspond to known genes or ESTs

CC (expressed sequence tags) which were previously unknown to be

CC preferentially or differentially expressed in dendritic cells, while

CC other transcripts correspond to novel genes. Antigen-presenting cell

CC (APC)-associated costimulatory factors play an important role in the

CC activation of the cytotoxic immune response, particularly against tumour

CC cells. Tumour antigen presentation via the MHC (major histocompatibility

CC complex) and subsequent recognition by T-cell receptors is alone

CC insufficient to activate a robust cytotoxic immune response that can lyse

CC the tumour cells, immunostimulatory cofactors also being required for

CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid

CC sequences identified using the SAGE tags have several potential uses.

CC They may be used in vaccines to induce an immune response, particularly

CC against a tumour antigen; to modulate the genotype of an APC; to screen

CC for agents that modulate expression of differentially expressed genes in

CC an APC; and as hybridisation probes/amplification primers for the

CC diagnosis, prognosis and monitoring of diseases related to abnormal

CC expression of these genes. Detection of the dendritic cell differentially

CC expressed genes, or of their encoded proteins, can be used to identify

CC cells as belonging to the monocyte lineage. Cells containing these genes

CC can be used in active immunotherapy (or to stimulate production of a

CC population of antigen-specific effector cells) and vectors containing

CC them are used in gene therapy. Co-administration of tumour antigens and

CC APC-associated costimulatory factors ensures adequate antigen

CC presentation to endogenous APCs and upregulates the APCs for the

CC presentation of co-stimulatory signals, migration to T cell-rich sites,

CC recruitment of T cell growth factors and secretion of chemokines for

CC recruitment of immune effector cells

XX

XX Sequence 10 BP; 1 A; 5 C; 1 G; 3 T; 0 U; 0 Other;

XX

XX Query Match 40.0%; Score 8; DB 1; Length 10;

XX Best Local Similarity 100.0%; Pred. No.66;

XX Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1018 CTTCTGCC 1025

Db 2 CTTCTGCC 9

XX

XX RESULT 155

AAZ77868/c ID AAZ77868 standard; DNA, 10 BP.

XX

AC AAZ77868;

XX

XX 10-APR-2000 (first entry)

XX

XX Human dendritic cell SAGE tag, SEQ ID NO:296.

DE

XX

XX SAGE tag: serial analysis of gene expression; antigen-presenting cell;

KW APC; monocyte-derived dendritic cell; differential gene expression;

KW immunostimulatory cofactor; costimulatory factor; CTL;

KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.

XX

XX Homo sapiens.

OS

XX MO9965924-A2.

XX

XX 23-DEC-1999.

XX

PF 18-JUN-1999; 99WO-US013800.

XX

PR 19-JUN-1998; 98US-0089833P.

PR 19-JUN-1998; 98US-0089844P.

PR 19-JUN-1998; 98US-0089853P.

PR 19-JUN-1998; 98US-0089878P.

PR 19-JUN-1998; 98US-0089919P.

PR 19-JUN-1998; 98US-0089932P.

PR 19-JUN-1998; 98US-0089933P.

PR 19-JUN-1998; 98US-0089949P.

PR 19-JUN-1998; 98US-0089997P.

PR 19-JUN-1998; 98US-0089999P.

PR 19-JUN-1998; 98US-0090000P.
PR 19-JUN-1998; 98US-0090035P.
PR 19-JUN-1998; 98US-0090036P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
PR 19-JUN-1998; 98US-0090042P.
PR 19-JUN-1998; 98US-0090043P.
PR 19-JUN-1998; 98US-0090044P.
PR 19-JUN-1998; 98US-0090045P.
PR 19-JUN-1998; 98US-0090047P.
PR 19-JUN-1998; 98US-0090047P.
PR 19-JUN-1998; 98US-0090072P.
PR 19-JUN-1998; 98US-0090076P.
PR 19-JUN-1998; 98US-0090077P.
PR 19-JUN-1998; 98US-0090078P.
PR 19-JUN-1998; 98US-0090079P.
PR 19-JUN-1998; 98US-0090080P.
PR 08-DEC-1998; 98US-0111715P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B. L.
PA (SHAN/) SHANKARA S.
PI
PI Roberts BL, Shankara S;
XX
XX WPI; 2000-106077/09.
XX
XX Isolated polynucleotides differentially expressed in antigen-presenting
XX cells, useful in gene vaccines against cancer.
XX
XX Claim 1; Page 72; 130pp; English.
XX
XX Sequences AA277573-279709 represent SAGE (serial analysis of gene
XX expression) tags used to identify mRNA transcripts encoding
XX immunostimulatory cofactor proteins which are preferentially or
XX differentially expressed in monocyte-derived dendritic cells compared
XX with monocytes. Some of the transcripts correspond to known genes or ESTs
XX (expressed sequence tags) which were previously unknown to be
XX preferentially or differentially expressed in dendritic cells, while
XX other transcripts correspond to novel genes. Antigen-presenting cell
XX (APC)-associated costimulatory factors play an important role in the
XX activation of the cytotoxic immune response, particularly against tumour
XX cells. Tumour antigen presentation via the MHC (major histocompatibility
XX complex) and subsequent recognition by T-cell receptors is alone
XX insufficient to activate a robust cytotoxic immune response that can lyse
XX the tumour cells, immunostimulatory cofactors also being required for
XX efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
XX sequences identified using the SAGE tags have several potential uses.
XX They may be used in vaccines to induce an immune response, particularly
XX against a tumour antigen; to modulate the genotype of an APC; to screen
XX for agents that modulate expression of differentially expressed genes in
XX an APC; and as hybridisation probes/amplification primers for the
XX diagnosis, prognosis and monitoring of diseases related to abnormal
XX expression of these genes. Detection of the dendritic cell differentially
XX expressed genes, or of their encoded proteins, can be used to identify
XX cells as belonging to the monocyte lineage. Cells containing these genes
XX can be used in active immunotherapy (or to stimulate production of a
XX population of antigen-specific effector cells) and vectors containing
XX them are used in gene therapy. Co-administration of tumour antigens and
XX APC-associated costimulatory factors ensures adequate antigen
XX presentation to endogenous APCs and upregulates the APCs for the
XX presentation of co-stimulatory signals, migration to T cell-rich sites,
XX secretion of T cell growth factors and secretion of chemokines for
XX recruitment of immune effector cells
XX
XX Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;
XX
XX
XX Query March 40.0%; Score 8; DB 1; Length 10;
XX Best Local Similarity 100.0%; Pred. No. 66;
XX Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1028 AGAGGTG 1035

DB 9 AGAGGTG 2
|||||||
RESULT 156
AA278273
ID AA278273 standard; DNA; 10 BP.
XX
XX AA278273;
AC
XX 10-APR-2000 (first entry)
DT
XX
XX Human dendritic cell SAGE tag, SEQ ID NO:701.
DE
XX
XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;
XX APC; monocyte-derived dendritic cell; differential gene expression;
XX immunostimulatory cofactor; costimulatory factor; CTL;
XX Cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
XX
XX Homo sapiens.
XX
XX WO965924-A2.
PN
XX 23-DEC-1999.
PD
XX
XX 18-JUN-1999; 99WO-US013800.
PF
XX
XX 19-JUN-1998; 98US-0089833P.
PR 19-JUN-1998; 98US-0089844P.
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089878P.
PR 19-JUN-1998; 98US-0089911P.
PR 19-JUN-1998; 98US-0089922P.
PR 19-JUN-1998; 98US-0089932P.
PR 19-JUN-1998; 98US-0089934P.
PR 19-JUN-1998; 98US-0089937P.
PR 19-JUN-1998; 98US-0089939P.
PR 19-JUN-1998; 98US-0090000P.
PR 19-JUN-1998; 98US-0090035P.
PR 19-JUN-1998; 98US-0090036P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
PR 19-JUN-1998; 98US-0090042P.
PR 19-JUN-1998; 98US-0090043P.
PR 19-JUN-1998; 98US-0090044P.
PR 19-JUN-1998; 98US-0090045P.
PR 19-JUN-1998; 98US-0090047P.
PR 19-JUN-1998; 98US-0090047P.
PR 19-JUN-1998; 98US-0090072P.
PR 19-JUN-1998; 98US-0090076P.
PR 19-JUN-1998; 98US-0090077P.
PR 19-JUN-1998; 98US-0090078P.
PR 19-JUN-1998; 98US-0090079P.
PR 19-JUN-1998; 98US-0090080P.
PR 08-DEC-1998; 98US-0111715P.
XX
XX (GENZ) GENZYME CORP.
XX (ROBE/) ROBERTS B. L.
XX (SHAN/) SHANKARA S.
XX
XX Roberts BL, Shankara S;
XX
XX WPI; 2000-106077/09.
XX
XX
XX Isolated polynucleotides differentially expressed in antigen-presenting
XX cells, useful in gene vaccines against cancer.
XX
XX Claim 1; Page 85; 130pp; English.
XX
XX Sequences AA277573-279709 represent SAGE (serial analysis of gene
XX expression) tags used to identify mRNA transcripts encoding
XX immunostimulatory cofactor proteins which are preferentially or

OY 1018 TTCTGCC 1025
|||
Db 8 TTCTGCC 1

RESULT 158
AAZ77770/c
ID AAZ77770 standard; DNA; 10 BP.

AAZ77770;
10-APR-2000 (first entry)

Human dendritic cell SAGE tag. SEQ ID NO:198.

SAGE tag; serial analysis of gene expression; antigen-presenting cell;
APC; monocyte-derived dendritic cell; differential gene expression;
immunostimulatory cofactor; costimulatory factor; CTL;
cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.

Homo sapiens.
MO9965924-A2.
23-DEC-1999.

18-JUN-1999; 99WO-US013800.
19-JUN-1998; 98US-0089833P.
19-JUN-1998; 98US-0089844P.
19-JUN-1998; 98US-0089853P.
19-JUN-1998; 98US-0089878P.
19-JUN-1998; 98US-0089919P.
19-JUN-1998; 98US-0089929P.
19-JUN-1998; 98US-0089939P.
19-JUN-1998; 98US-0089949P.
19-JUN-1998; 98US-0089959P.
19-JUN-1998; 98US-0090000P.
19-JUN-1998; 98US-0090035P.
19-JUN-1998; 98US-0090036P.
19-JUN-1998; 98US-0090039P.
19-JUN-1998; 98US-0090040P.
19-JUN-1998; 98US-0090041P.
19-JUN-1998; 98US-0090042P.
19-JUN-1998; 98US-0090043P.
19-JUN-1998; 98US-0090044P.
19-JUN-1998; 98US-0090045P.
19-JUN-1998; 98US-0090047P.
19-JUN-1998; 98US-0090072P.
19-JUN-1998; 98US-0090076P.
19-JUN-1998; 98US-0090077P.
19-JUN-1998; 98US-0090078P.
19-JUN-1998; 98US-0090079P.
19-JUN-1998; 98US-0090080P.
08-DEC-1998; 98US-0111715P.

(GENZ) GENZYME CORP.
(ROBE/) ROBERTS B L.
(SHAN/) SHANKARA S.

Roberts BL, Shankara S;
WPI; 2000-106077/09.

Isolated polynucleotides differentially expressed in antigen-presenting
cells, useful in gene vaccines against cancer.

Claim 1; Page 69; 130pp; English.

Sequences AAZ77573-579709 represent SAGE (serial analysis of gene
expression) tags used to identify mRNA transcripts encoding

CC immunostimulatory cofactor proteins which are preferentially or
CC differentially expressed in monocyte-derived dendritic cells compared
CC with monocytes. Some of the transcripts correspond to known genes or ESTs
CC (expressed sequence tags) which were previously unknown to be
CC preferentially or differentially expressed in dendritic cells, while
CC other transcripts correspond to novel genes. Antigen-presenting cell
CC (APC)-associated costimulatory factors play an important role in the
CC activation of the cytotoxic immune response, particularly against tumour
CC cells. Tumour antigen presentation via the MHC (major histocompatibility
CC complex) and subsequent recognition by T-cell receptors is alone
CC insufficient to activate a robust cytotoxic immune response that can lyse
CC the tumour cells, immunostimulatory cofactors also being required for
CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
CC sequences identified using the SAGE tags have several potential uses.
CC They may be used in vaccines to induce an immune response, particularly
CC against a tumour antigen; to modulate the genotype of an APC; to screen
CC for agents that modulate expression of differentially expressed genes in
CC an APC; and as hybridisation probes/amplification primers for the
CC diagnosis, prognosis and monitoring of diseases related to abnormal
CC expression of these genes. Detection of the dendritic cell differentially
CC expressed genes, or of their encoded proteins, can be used to identify
CC cells as belonging to the monocyte lineage. Cells containing these genes
CC can be used in active immunotherapy (or to stimulate production of a
CC population of antigen-specific effector cells) and vectors containing
CC them are used in gene therapy. Co-administration of tumour antigens and
CC APC-associated costimulatory factors ensures adequate antigen
CC presentation to endogenous APCs and upregulates the APCs for the
CC presentation of co-stimulatory signals, migration to T cell-rich sites,
CC recruitment of T cell growth factors and secretion of chemokines for
CC secretion of immune effector cells

XX
SQ Sequence 10 BP; 3 A; 1 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred.No.66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1019 TTCTGCC 1026
|||
Db 8 TTCTGCC 1

RESULT 159
AAZ77870/c
ID AAZ77870 standard; DNA; 10 BP.

AAZ77870;
10-APR-2000 (first entry)

Human dendritic cell SAGE tag, SEQ ID NO:298.

SAGE tag; serial analysis of gene expression; antigen-presenting cell;
APC; monocyte-derived dendritic cell; differential gene expression;
immunostimulatory cofactor; costimulatory factor; CTL;
cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.

Homo sapiens.
MO9965924-A2.
23-DEC-1999.

18-JUN-1999; 99WO-US013800.
19-JUN-1998; 98US-0089833P.
19-JUN-1998; 98US-0089844P.
19-JUN-1998; 98US-0089853P.
19-JUN-1998; 98US-0089878P.
19-JUN-1998; 98US-0089919P.
19-JUN-1998; 98US-0089929P.
19-JUN-1998; 98US-0089939P.
19-JUN-1998; 98US-0089949P.

expression) tags used to identify mRNA transcripts encoding immunostimulatory cofactor proteins which are preferentially or differentially expressed in monocyte-derived dendritic cells compared with monocytes. Some of the transcripts correspond to known genes or ESTs (expressed sequence tags) which were previously unknown to be preferentially or differentially expressed in dendritic cells, while other transcripts correspond to novel genes. Antigen-presenting cell (APC)-associated costimulatory factors play an important role in the activation of the cytotoxic immune response, particularly against tumour cells. Tumour antigen presentation via the MHC (major histocompatibility complex) and subsequent recognition by T-cell receptors is alone insufficient to activate a robust cytotoxic immune response that can lyse the tumour cells, immunostimulatory cofactors also being required for efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid sequences identified using the SAGE tags have several potential uses. They may be used in vaccines to induce an immune response, particularly against a tumour antigen, to modulate the genotype of an APC, to screen for agents that modulate expression of differentially expressed genes in an APC, and as hybridisation probes/amplification primers for the diagnosis, prognosis and monitoring of diseases related to abnormal expression of these genes. Detection of the dendritic cell differentially expressed genes, or of their encoded proteins, can be used to identify cells as belonging to the monocyte lineage. Cells containing these genes can be used in active immunotherapy (or to stimulate production of a population of antigen-specific effector cells) and vectors containing them are used in gene therapy. Co-administration of tumour antigens and APC-associated costimulatory factors ensures adequate antigen presentation to endogenous APCs and upregulates the APCs for the presentation of co-stimulatory signals, migration to T cell-rich sites, secretion of T cell growth factors and secretion of chemokines for recruitment of immune effector cells

SO Sequence 10 BP; 1 A; 3 C; 1 G; 5 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1026 CAAGAGG 1033
|||||
Db 8 CAGAGG 1

RESULT 161
AAZ79551
ID AAZ79551 standard; DNA; 10 BP.

AC AAZ79551;

DT 10-APR-2000 (first entry)

DE Human dendritic cell SAGE tag, SEQ ID NO:1979.

KM SAGE tag; serial analysis of gene expression; antigen-presenting cell;
APC; monocyte-derived dendritic cell; differential gene expression;

KW immunostimulatory cofactor; costimulatory factor; CTL;
cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.

OS Homo sapiens.

PN MO9965924-A2.

PD 23-DEC-1999.

PF 18-JUN-1999; 99WO-US013800.

PR 19-JUN-1998; 98US-0089833P.

PR 19-JUN-1998; 98US-0089844P.

PR 19-JUN-1998; 98US-0089853P.

PR 19-JUN-1998; 98US-0089878P.

PR 19-JUN-1998; 98US-0089991P.

PR 19-JUN-1998; 98US-0089922P.

PR 19-JUN-1998; 98US-0089933P.

PR 19-JUN-1998; 98US-0089949P.
PR 19-JUN-1998; 98US-0089979P.
PR 19-JUN-1998; 98US-0089999P.
PR 19-JUN-1998; 98US-0090000P.
PR 19-JUN-1998; 98US-0090035P.
PR 19-JUN-1998; 98US-0090036P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
PR 19-JUN-1998; 98US-0090042P.
PR 19-JUN-1998; 98US-0090043P.
PR 19-JUN-1998; 98US-0090044P.
PR 19-JUN-1998; 98US-0090045P.
PR 19-JUN-1998; 98US-0090047P.
PR 19-JUN-1998; 98US-0090048P.
PR 19-JUN-1998; 98US-0090072P.
PR 19-JUN-1998; 98US-0090076P.
PR 19-JUN-1998; 98US-0090077P.
PR 19-JUN-1998; 98US-0090078P.
PR 19-JUN-1998; 98US-0090079P.
PR 19-JUN-1998; 98US-0090080P.
PR 08-DEC-1998; 98US-0111715P.

XX (GENZ) GENZYME CORP.
PA (ROBE) ROBERTS B L.
PA (SHAN) SHANKARA S.

PI Roberts BL, Shankara S;

XX WPI; 2000-106077/09.

XX Isolated polynucleotides differentially expressed in antigen-presenting
PT cells, useful in gene vaccines against cancer.

XX Claim 1; Page 121; 130pp; English.

PS Sequences AAZ77573-779709 represent SAGE (serial analysis of gene
XX expression) tags used to identify mRNA transcripts encoding
CC immunostimulatory cofactor proteins which are preferentially or
CC differentially expressed in monocyte-derived dendritic cells compared
CC with monocytes. Some of the transcripts correspond to known genes or ESTs
CC (expressed sequence tags) which were previously unknown to be
CC preferentially or differentially expressed in dendritic cells, while
CC other transcripts correspond to novel genes. Antigen-presenting cell
CC (APC)-associated costimulatory factors play an important role in the
CC activation of the cytotoxic immune response, particularly against tumour
CC cells. Tumour antigen presentation via the MHC (major histocompatibility
CC complex) and subsequent recognition by T-cell receptors is alone
CC insufficient to activate a robust cytotoxic immune response that can lyse
CC the tumour cells, immunostimulatory cofactors also being required for
CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
CC sequences identified using the SAGE tags have several potential uses.
CC They may be used in vaccines to induce an immune response, particularly
CC against a tumour antigen, to modulate the genotype of an APC, to screen
CC for agents that modulate expression of differentially expressed genes in
CC an APC, and as hybridisation probes/amplification primers for the
CC diagnosis, prognosis and monitoring of diseases related to abnormal
CC expression of these genes. Detection of the dendritic cell differentially
CC expressed genes, or of their encoded proteins, can be used to identify
CC cells as belonging to the monocyte lineage. Cells containing these genes
CC can be used in active immunotherapy (or to stimulate production of a
CC population of antigen-specific effector cells) and vectors containing
CC them are used in gene therapy. Co-administration of tumour antigens and
CC APC-associated costimulatory factors ensures adequate antigen
CC presentation to endogenous APCs and upregulates the APCs for the
CC presentation of co-stimulatory signals, migration to T cell-rich sites,
CC secretion of T cell growth factors and secretion of chemokines for
CC recruitment of immune effector cells

SO Sequence 10 BP; 3 A; 0 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1029 GAAGGTGG 1036
 |||||
 Db 2 GAAGGTGG 9

RESULT 162
 AA283134/c
 ID AA283134 standard; DNA; 10 BP.
 AC AA283134;
 XX
 DT 07-APR-2000 (first entry)
 XX
 DE Metastatic breast tumour cell upregulated transcript tag #2368.
 XX
 KM Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KM non-metastatic breast tumour tissue; gene therapy; anticancer;
 KM antimetastatic; vaccine; diagnosis; ss.
 XX
 OS Homo sapiens.
 XX
 PN MO9965928-A2.
 XX
 PD 23-DEC-1999.
 XX
 PF 18-JUN-1999; 99WO-US013647.
 XX
 PR 19-JUN-1998; 98US-0089853P.
 PR 19-JUN-1998; 98US-0089997P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090041P.
 XX
 PA (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.
 PI Robertas BL, Shankara S;
 DR WPI; 2000-106079/09.
 XX
 PT Isolated polynucleotides differentially expressed between metastatic and
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
 PT treatment of cancer.
 XX
 PS Claim 1; Page 123; 219pp; English.

AA280767 to AA283941 represent tags corresponding to distinct transcripts
 CC that are preferentially transcribed in the metastatic breast tumour
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
 CC to AA286677 represent tags corresponding to distinct transcripts that are
 CC preferentially transcribed in the primary or non-metastatic breast tumour
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
 CC transcripts can be used for diagnosis, prognosis, monitoring and
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.
 CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based
 CC vaccines. Polypeptides encoded by the transcripts are also useful in
 CC vaccines; for diagnosing breast cancer and for raising specific
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 CC agents. Host cells that produce the polypeptides can be used to expand
 CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 CC immunotherapy
 XX
 SQ Sequence 10 BP; 5 A; 1 C; 4 G; 0 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 66;
 # Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1018 CTTCTGCC 1025
 |||||
 Db 10 CTTCTGCC 3

RESULT 163
 AA281919/c
 ID AA281919 standard; DNA; 10 BP.
 AC AA281919;
 XX
 DT 07-APR-2000 (first entry)
 XX
 DE Metastatic breast tumour cell upregulated transcript tag #1153.
 XX
 KM Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KM non-metastatic breast tumour tissue; gene therapy; anticancer;
 KM antimetastatic; vaccine; diagnosis; ss.
 XX
 OS Homo sapiens.
 XX
 PN MO9965928-A2.
 XX
 PD 23-DEC-1999.
 XX
 PF 18-JUN-1999; 99WO-US013647.
 XX
 PR 19-JUN-1998; 98US-0089853P.
 PR 19-JUN-1998; 98US-0089997P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090041P.
 XX
 PA (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.
 PI Robertas BL, Shankara S;
 DR WPI; 2000-106079/09.
 XX
 PT Isolated polynucleotides differentially expressed between metastatic and
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
 PT treatment of cancer.
 XX
 PS Claim 1; Page 89; 219pp; English.

AA280767 to AA283941 represent tags corresponding to distinct transcripts
 CC that are preferentially transcribed in the metastatic breast tumour
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
 CC to AA286677 represent tags corresponding to distinct transcripts that are
 CC preferentially transcribed in the primary or non-metastatic breast tumour
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
 CC transcripts can be used for diagnosis, prognosis, monitoring and
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.
 CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based
 CC vaccines. Polypeptides encoded by the transcripts are also useful in
 CC vaccines; for diagnosing breast cancer and for raising specific
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 CC agents. Host cells that produce the polypeptides can be used to expand
 CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 CC immunotherapy
 XX

SQ Sequence 10 BP; 1 A; 1 C; 3 G; 5 T; 0 U; 0 Other;
XX
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1024 CCCAAGAA 1031
|||||
Db 8 CCCAAGAA 1

RESULT 164
AAZ84193
ID AAZ84193 standard; DNA; 10 BP.
XX
AC AAZ84193;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell downregulated transcript tag #3427.
XX
KM Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KM antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN MO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
PI Roberts BL, Shankara S;
PI
XX WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
PS Claim 1; Page 150; 219pp; English.
XX
XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
CC to AAZ86677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive

CC immunotherapy
XX
SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;
XX
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1030 AAGTGGG 1037
|||||
Db 3 AAGTGGG 10

RESULT 165
AAZ82122
ID AAZ82122 standard; DNA; 10 BP.
XX
AC AAZ82122;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell upregulated transcript tag #1356.
XX
KM Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KM antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN MO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
PI Roberts BL, Shankara S;
PI
XX WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
PS Claim 1; Page 95; 219pp; English.
XX
XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
CC to AAZ86677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand

CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 CC immunotherapy
 CC
 XX Sequence 10 BP; 0 A; 6 C; 1 G; 3 T; 0 U; 0 Other;
 SO
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 66;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1018 CTCTGCC 1025
 Db 3 CTCTGCC 10
 RESULT 166
 AA283647/c
 ID AA283647 standard; DNA; 10 BP.
 XX
 AC AA283647;
 XX
 DT 07-APR-2000 (first entry)
 XX
 DE Metastatic breast tumour cell upregulated transcript tag #2881.
 XX
 KM Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KM non-metastatic breast tumour tissue; gene therapy; anticancer;
 KM antimetastatic; vaccine; diagnosis; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO9965928-A2..
 XX
 PD 23-DEC-1999.
 XX
 PF 18-JUN-1999; 99WO-US013647.
 XX
 PR 19-JUN-1998; 98US-0089853P.
 PR 19-JUN-1998; 98US-0089997P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090041P.
 XX
 PA (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.
 XX
 PI Roberts BL, Shankara S;
 XX
 DR WPI; 2000-106079/09.
 XX
 PT Isolated polynucleotides differentially expressed between metastatic and
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
 PT treatment of cancer.
 XX
 PS Claim 1; Page 136; 219pp; English.
 XX
 CC AA280767 to AA283941 represent tags corresponding to distinct transcripts
 CC that are preferentially transcribed in the metastatic breast tumour
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
 CC to AA286677 represent tags corresponding to distinct transcripts that are
 CC preferentially transcribed in the primary or non-metastatic breast tumour
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
 CC transcripts can be used for diagnosis, prognosis, monitoring and
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.
 CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based
 CC vaccines. Polypeptides encoded by the transcripts are also useful in
 CC vaccines; for diagnosing breast cancer and for raising specific

CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 CC agents. Host cells that produce the polypeptides can be used to expand
 CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 CC immunotherapy
 CC
 XX Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;
 SO
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 66;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1028 AGAAGGTG 1035
 Db 9 AGAAGGTG 2
 RESULT 167
 AA283418/c
 ID AA283418 standard; DNA; 10 BP.
 XX
 AC AA283418;
 XX
 DT 07-APR-2000 (first entry)
 XX
 DE Metastatic breast tumour cell upregulated transcript tag #2652.
 XX
 KM Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KM non-metastatic breast tumour tissue; gene therapy; anticancer;
 KM antimetastatic; vaccine; diagnosis; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO9965928-A2..
 XX
 PD 23-DEC-1999.
 XX
 PF 18-JUN-1999; 99WO-US013647.
 XX
 PR 19-JUN-1998; 98US-0089853P.
 PR 19-JUN-1998; 98US-0089997P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090041P.
 XX
 PA (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.
 XX
 PI Roberts BL, Shankara S;
 XX
 DR WPI; 2000-106079/09.
 XX
 PT Isolated polynucleotides differentially expressed between metastatic and
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
 PT treatment of cancer.
 XX
 PS Claim 1; Page 130; 219pp; English.
 XX
 CC AA280767 to AA283941 represent tags corresponding to distinct transcripts
 CC that are preferentially transcribed in the metastatic breast tumour
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
 CC to AA286677 represent tags corresponding to distinct transcripts that are
 CC preferentially transcribed in the primary or non-metastatic breast tumour
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
 CC transcripts can be used for diagnosis, prognosis, monitoring and
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.
 CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based

CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
SQ Sequence 10 BP; 4 A; 2 C; 4 G; 0 T; 0 U; 0 Other;
XX
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1019 TTCTGCC 1026
Db 9 TTCTGCC 2
XX
RESULT 168
ID AA282784 standard; DNA; 10 BP.
XX
AC AA282784;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell upregulated transcript tag #2018.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KM antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
FN WO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
XX Claim 1; Page 113; 219pp; English.
XX
XX AA280767 to AA283941 represent tags corresponding to distinct transcripts
XX that are preferentially transcribed in the metastatic breast tumour
XX tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
XX to AA286677 represent tags corresponding to distinct transcripts that are
XX preferentially transcribed in the primary or non-metastatic breast tumour
XX tissue (i.e. are downregulated in metastatic breast tumour cells). These
XX transcripts can be used for diagnosis, prognosis, monitoring and
XX treatment of breast cancer, particularly where metastatic. Diagnosis is
XX by standard immunoassays or hybridisation/amplification reactions.
XX Compounds that modulate expression of the transcripts are potentially
XX useful for treatment of (metastatic) breast cancer, while promoters from
XX the transcripts are used to direct expression, in selected cell types, of

CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
SQ Sequence 10 BP; 2 A; 1 C; 6 G; 1 T; 0 U; 0 Other;
XX
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1029 GAAGCTG 1036
Db 3 GAAGCTG 10
XX
RESULT 169
ID AA285883/C
XX
AC AA285883 standard; DNA; 10 BP.
XX
AC AA285883;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell downregulated transcript tag #5117.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KM antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
FN WO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
XX Claim 1; Page 194; 219pp; English.
XX
XX AA280767 to AA283941 represent tags corresponding to distinct transcripts
XX that are preferentially transcribed in the metastatic breast tumour
XX tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
XX to AA286677 represent tags corresponding to distinct transcripts that are
XX preferentially transcribed in the primary or non-metastatic breast tumour
XX tissue (i.e. are downregulated in metastatic breast tumour cells). These
XX transcripts can be used for diagnosis, prognosis, monitoring and
XX treatment of breast cancer, particularly where metastatic. Diagnosis is
XX by standard immunoassays or hybridisation/amplification reactions.
XX Compounds that modulate expression of the transcripts are potentially

CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences).
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
CC
SQ Sequence 10 BP; 1 A; 5 C; 0 G; 4 T; 0 U; 0 Other;
XX
XX
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1029 GAAGTGG 1036
Db 10 GAAGTGG 3
|||||
RESULT 170
AA286535
ID AA286535 standard; DNA; 10 BP.
XX
AC AA286535;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell downregulated transcript tag #5769.
XX
XX Human, metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
FN WO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
XX WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
XX Claim 1; Page 210; 21pp; English.
XX
XX AA280767 to AA283941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
CC to AA286677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is

CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences).
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
CC
SQ Sequence 10 BP; 2 A; 0 C; 5 G; 3 T; 0 U; 0 Other;
XX
XX
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1029 GAAGTGG 1036
Db 2 GAAGTGG 9
|||||
RESULT 171
AA281064
ID AA281064 standard; DNA; 10 BP.
XX
AC AA281064;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell upregulated transcript tag #298.
XX
XX Human, metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
FN WO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
XX WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
XX Claim 1; Page 66; 21pp; English.
XX
XX AA280767 to AA283941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
CC to AA286677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These

CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines, for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy

XX SQ Sequence 10 BP; 3 A; 0 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1029 GAAGGTGG 1036
Db 2 GAAGGTGG 9
|||||

RESULT 172
AAZ83296
ID AAZ83296 standard; DNA; 10 BP.
XX AAZ83296;
AC
XX 07-APR-2000 (first entry)
DT
XX
DE Metastatic breast tumour cell upregulated transcript tag #2530.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
XX WO9965928-A2.
PN
XX
XX 23-DEC-1999.
PD
XX
XX 18-JUN-1999; 99WO-US013647.
PF
XX
XX 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
XX (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
XX Roberts BL, Shankara S;
PI
XX WPI; 2000-106079/09.
DR
XX
XX Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
XX Claim 1; Page 127; 219pp; English.
PS
XX
XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
CC to AAZ86677 represent tags corresponding to distinct transcripts that are

CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines, for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy

XX SQ Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1018 CTTCTGCC 1025
Db 2 CTTCTGCC 9
|||||

RESULT 173
AAZ84897
ID AAZ84897 standard; DNA; 10 BP.
XX AAZ84897;
AC
XX 07-APR-2000 (first entry)
DT
XX
DE Metastatic breast tumour cell downregulated transcript tag #4131.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
XX WO9965928-A2.
PN
XX
XX 23-DEC-1999.
PD
XX
XX 18-JUN-1999; 99WO-US013647.
PF
XX
XX 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
XX (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
XX Roberts BL, Shankara S;
PI
XX WPI; 2000-106079/09.
DR
XX
XX Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
XX Claim 1; Page 169; 219pp; English.
PS
XX
XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour

CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA83942
CC to AA86677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines: for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
CC
SQ Sequence 10 BP; 3 A; 1 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1028 AGAAGCTG 1035
Db 3 AGAAGCTG 10

RESULT 174
AA281128/C
ID AA281128 standard; DNA; 10 BP.

XX AC AA281128;
XX DT 07-APR-2000 (first entry)
XX DE Metastatic breast tumour cell upregulated transcript tag #362.
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
XX non-metastatic breast tumour tissue; gene therapy; anticancer;
XX antimetastatic; vaccine; diagnosis; ss.
XX OS Homo sapiens.
XX PN WO965928-A2.
XX PD 23-DEC-1999.
XX PF 18-JUN-1999; 99WO-US013647.
XX PR 19-JUN-1998; 98US-0089853P.
XX PR 19-JUN-1998; 98US-0089997P.
XX PR 19-JUN-1998; 98US-0090039P.
XX PR 19-JUN-1998; 98US-0090040P.
XX PR 19-JUN-1998; 98US-0090041P.
XX PA (GENZ) GENZYME CORP.
XX PA (ROBE/) ROBERTS B L.
XX PA (SHAN/) SHANKARA S.
XX PI Roberts BL, Shankara S;
XX DR WPI; 2000-106079/09.
XX Isolated polynucleotides differentially expressed between metastatic and
XX non-metastatic breast cancer cells, useful for diagnosis, prevention and
XX treatment of cancer.
XX Claim 1; Page 67; 21pp; English.
XX

CC AA280767 to AA283941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA83942
CC to AA286677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines: for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
CC
SQ Sequence 10 BP; 3 A; 1 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1019 TTCTGCCC 1026
Db 8 TTCTGCCC 1

RESULT 175
AA283682
ID AA283682 standard; DNA; 10 BP.

XX AC AA283682;
XX DT 07-APR-2000 (first entry)
XX DE Metastatic breast tumour cell upregulated transcript tag #2916.
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
XX non-metastatic breast tumour tissue; gene therapy; anticancer;
XX antimetastatic; vaccine; diagnosis; ss.
XX OS Homo sapiens.
XX PN WO965928-A2.
XX PD 23-DEC-1999.
XX PF 18-JUN-1999; 99WO-US013647.
XX PR 19-JUN-1998; 98US-0089853P.
XX PR 19-JUN-1998; 98US-0089997P.
XX PR 19-JUN-1998; 98US-0090039P.
XX PR 19-JUN-1998; 98US-0090040P.
XX PR 19-JUN-1998; 98US-0090041P.
XX PA (GENZ) GENZYME CORP.
XX PA (ROBE/) ROBERTS B L.
XX PA (SHAN/) SHANKARA S.
XX PI Roberts BL, Shankara S;
XX DR WPI; 2000-106079/09.
XX Isolated polynucleotides differentially expressed between metastatic and
XX non-metastatic breast cancer cells, useful for diagnosis, prevention and
XX treatment of cancer.
XX

XX New isolated polynucleotides, useful for identifying specific cell type,
PT such as cancer cell, comprises transcripts expressed in particular
PT cell types.
XX
XX Claim 11; Page 42; 94pp; English.
XX
CC The present invention describes a method of identifying the type of cell
CC in a sample, involving determining which of the sequences AAH63161-
CC AAH64724 is expressed by the cell. The transcripts described in the
CC invention are cell-type specific, cancer specific or ubiquitously
CC expressed in humans. They can also be used to screen for drugs, reduce
CC cancer specific gene expression, standardise expression and restore the
CC function of a diseased cell or tissue. The present sequence is one of the
CC transcripts described in the exemplification of the invention
XX
SQ Sequence 10 BP; 0 A; 4 C; 1 G; 5 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1026 GAAGAGG 1033
DB 8 CAAGAGG 1
RESULT 180
AAFG9638
ID AAF69638 standard; DNA; 10 BP.
XX
AC AAF69638;
XX
DT 18-APR-2001 (first entry)
XX
DE Human IL4Ralpha gene probe #278.
XX
KM Polymorphism; human; interleukin 4 receptor-alpha; IL4R-alpha;
KM allergic disease; probe; ss.
XX
OS Homo sapiens.
XX
PN WO200104270-A1.
XX
PD 18-JAN-2001.
XX
PF 13-JUL-2000; 2000MO-US019094.
XX
PR 13-JUL-1999; 99US-0143435P.
XX
PA (GENA-) GENAISANCE PHARM INC.
PI Chew A, Denton RR, Duda A, Nandabalan K, Stephens JC;
PI Windemuth AK;
XX
XX WPI; 2001-103078/11.
XX
PT New isolated polynucleotide useful for the identification of therapeutics
PT in allergic diseases is new.
XX
PS Disclosure; Page 46; 188pp; English.
XX
CC The present invention relates to polymorphisms of the human interleukin 4
CC receptor-alpha gene (IL4R-alpha; see AAF57718 for the reference
CC sequence). Polynucleotides comprising polymorphic gene variants are
CC useful for therapeutic purposes. For example, where a patient may benefit
CC from expression of a particular IL4Ralpha protein isoform, an expression
CC vector encoding the isoform may be administered to the patient. It may
CC desirable to decrease or block expression of a particular IL4Ralpha
CC isogene, which may be done by turning off by transforming a targeted
CC organ, tissue or cell population with an expression vector that expresses
CC high levels of untranslatable mRNA for the isogene. Specific therapeutics
CC identified by these methods may be useful for allergic diseases. The

CC present sequence is a probe for human IL4R-alpha
XX
SQ Sequence 10 BP; 2 A; 2 C; 5 G; 1 T; 0 U; 0 Other;
XX
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1029 GAAGGTGG 1036
DB 3 GAAGGTGG 10
RESULT 181
AAFG5751
ID AAF35751 standard; DNA; 10 BP.
XX
AC AAF35751;
XX
DT 23-MAR-2001 (first entry)
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:2490.
XX
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
KM serial analysis of gene expression; antifungal; tag; identification;
KM linker; PCR primer; ds.
XX
XX Saccharomyces cerevisiae.
XX
PN WO200077214-A2.
XX
PD 21-DEC-2000.
XX
PF 14-JUN-2000; 2000MO-US016223.
XX
PR 16-JUN-1999; 99US-00335032.
XX
PA (UYJO) UNIV JOHNS HOPKINS.
XX
PI Velculescu V, Vogelstein B, Kinzler K;
XX
XX WPI; 2001-061874/07.
XX
PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
PS Example; Page 88; 419pp; English.
XX
CC The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell

CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method. In the exemplification of the present invention
 CC
 XX Sequence 10 BP; 4 A; 0 C; 3 G; 3 T; 0 U; 0 Other;
 SQ Sequence 10 BP; 1 A; 2 C; 2 G; 5 T; 0 U; 0 Other;
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 66;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1027 AAGAGGT 1034
 1 AAGAGGT 8
 Db 9 CCAAGAG 2
 RESULT 182
 AAF39472/C
 ID AAF39472 standard; DNA; 10 BP.
 XX
 AC AAF39472;
 XX
 DT 23-MAR-2001 (first entry)
 XX
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:6211.
 XX
 KM Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KM not previously assigned open reading frame; nonannotated ORF; SAGE;
 KM serial analysis of gene expression; antifungal; tag; identification;
 KM linker; PCR primer; de.
 XX
 OS Saccharomyces cerevisiae.
 XX
 PN WO200077214-A2.
 XX
 PD 21-DEC-2000.
 XX
 PF 14-JUN-2000; 2000WO-US016223.
 XX
 PR 16-JUN-1999; 99US-00335032.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS.
 XX
 PI Velculescu V, Vogelstein B, Kinzler K;
 DR WPI; 2001-061874/07.
 XX
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX
 PS Example; Page 221; 419pp; English.
 XX
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used

CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 CC
 XX Sequence 10 BP; 1 A; 2 C; 2 G; 5 T; 0 U; 0 Other;
 SQ Sequence 10 BP; 1 A; 2 C; 2 G; 5 T; 0 U; 0 Other;
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 66;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1025 CCAAGAG 1032
 9 CCAAGAG 2
 Db 9 CCAAGAG 2
 RESULT 183
 AAF39102/C
 ID AAF39102 standard; DNA; 10 BP.
 XX
 AC AAF39102;
 XX
 DT 23-MAR-2001 (first entry)
 XX
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5841.
 XX
 KM Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KM not previously assigned open reading frame; nonannotated ORF; SAGE;
 KM serial analysis of gene expression; antifungal; tag; identification;
 KM linker; PCR primer; de.
 XX
 OS Saccharomyces cerevisiae.
 XX
 PN WO200077214-A2.
 XX
 PD 21-DEC-2000.
 XX
 PF 14-JUN-2000; 2000WO-US016223.
 XX
 PR 16-JUN-1999; 99US-00335032.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS.
 XX
 PI Velculescu V, Vogelstein B, Kinzler K;
 DR WPI; 2001-061874/07.
 XX
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX
 PS Example; Page 208; 419pp; English.
 XX
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a

CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF gene may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP, 3 A, 1 C, 4 G, 2 T, 0 U, 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1021 CTGCCCAA 1028
DB 10 CTGCCCAA 3
RESULT 184
AAFA1579/c
ID AAF41579 standard; DNA; 10 BP.
XX
AC AAF41579;
XX
DT 23-MAR-2001 (first entry)
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8318.
XX
KM Yeast; *Saccharomyces cerevisiae*; characterisation; cell cycle; NORF;
KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
KM serial analysis of gene expression; antifungal; tag; identification;
KM linker; PCR primer; ds.
XX
OS *Saccharomyces cerevisiae*.
XX
PN WO200077214-A2.
XX
PD 21-DEC-2000.
XX
PF 14-JUN-2000; 2000WO-US016223.
XX
PR 16-JUN-1999; 99US-00335032.
XX
PA (UYJO) UNIV JOHNS HOPKINS.
XX
PI Velculescu V, Vogelstein B, Kinzler K;
XX
DR WPI; 2001-061874/07.
XX
PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
PS Example; Page 297; 419pp; English.
XX
CC The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10

CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP, 0 A, 3 C, 3 G, 4 T, 0 U, 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1025 CCAAGAG 1032
DB 8 CCAAGAG 1
RESULT 185
AAFA3940
ID AAF43940 standard; DNA; 10 BP.
XX
AC AAF43940;
XX
DT 23-MAR-2001 (first entry)
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:12079.
XX
KM Yeast; *Saccharomyces cerevisiae*; characterisation; cell cycle; NORF;
KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
KM serial analysis of gene expression; antifungal; tag; identification;
KM linker; PCR primer; ds.
XX
OS *Saccharomyces cerevisiae*.
XX
PN WO200077214-A2.
XX
PD 21-DEC-2000.
XX
PF 14-JUN-2000; 2000WO-US016223.
XX
PR 16-JUN-1999; 99US-00335032.
XX
PA (UYJO) UNIV JOHNS HOPKINS.
XX
PI Velculescu V, Vogelstein B, Kinzler K;
XX
DR WPI; 2001-061874/07.
XX
PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
PS Example; Page 381; 419pp; English.
XX
CC The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of

CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX

SQ Sequence 10 BP; 0 A; 5 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1019 TTCTGCC 1026
|||
2 TTCTGCC 9

Db

RESULT 186
AAF34735
ID AAF34735 standard; DNA; 10 BP.
AC AAF34735;
XX
XX 23-MAR-2001 (first entry)
DT
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:1474.
XX
XX Yeast; *Saccharomyces cerevisiae*; characterisation; cell cycle; NORF;
KM not previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
XX linker; PCR primer; ds.
XX
OS *Saccharomyces cerevisiae*.
XX
XX WO200077214-A2.
XX
XX 21-DEC-2000.
PD
XX
XX 14-JUN-2000; 2000MO-US016223.
PF
XX
XX 16-JUN-1999; 99US-00335032.
PR
XX
XX (UYJO) UNIV JOHNS HOPKINS.
PA
XX
PI Velculescu V, Vogelstein B, Kinzler K;
XX
XX WPI; 2001-061874/07.
DR
XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
XX Example; Page 52; 419pp; English.
XX
XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate

CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX

SQ Sequence 10 BP; 5 A; 1 C; 4 G; 0 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1026 CAAGAGG 1033
|||
2 CAAGAGG 9

Db

RESULT 187
AAF34229
ID AAF34229 standard; DNA; 10 BP.
AC AAF34229;
XX
XX 23-MAR-2001 (first entry)
DT
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:368.
XX
XX Yeast; *Saccharomyces cerevisiae*; characterisation; cell cycle; NORF;
KM not previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
XX linker; PCR primer; ds.
XX
XX *Saccharomyces cerevisiae*.
XX
XX WO200077214-A2.
XX
XX 21-DEC-2000.
PD
XX
XX 14-JUN-2000; 2000MO-US016223.
PF
XX
XX 16-JUN-1999; 99US-00335032.
PR
XX
XX (UYJO) UNIV JOHNS HOPKINS.
PA
XX
PI Velculescu V, Vogelstein B, Kinzler K;
XX
XX WPI; 2001-061874/07.
DR
XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
XX Example; Page 34; 419pp; English.
XX
XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell

CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention

XX Sequence 10 BP; 3 A; 0 C; 6 G; 1 T; 0 U; 0 Other;

Query Match Best Local Similarity 40.0%; Score 8; DB 1; Length 10;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1028 AGAAGGTG 1035
Db 3 AGAAGGTG 10
|||||

RESULT 188
AAF3328
ID AAF3328 standard; DNA; 10 BP.

XX AAF37328;

XX 23-MAR-2001 (first entry)

XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:4067.

DE Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM not previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
XX linker; PCR primer; ds.

XX OS Saccharomyces cerevisiae.

XX WO200077214-A2.

XX 21-DEC-2000.

XX 14-JUN-2000; 2000WO-US016223.

XX 16-JUN-1999; 99US-00335032.

XX (UYJO) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.

XX Example; Page 145; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not

CC previously assigned open reading frame; or nonannotated ORF) genes
CC describing a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention

XX Sequence 10 BP; 4 A; 2 C; 4 G; 0 T; 0 U; 0 Other;

Query Match Best Local Similarity 40.0%; Score 8; DB 1; Length 10;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1026 CAGAAGG 1033
Db 1 CAGAAGG 8
|||||

RESULT 189
ABK24258
ID ABK24258 standard; DNA; 10 BP.

XX ABK24258;

XX 09-APR-2002 (first entry)

XX Retinaldehyde-binding protein 1 ASO primer extension primer #31.

DE Human; retinaldehyde-binding protein 1; se; RLBPL; haplotype; primer;
KM genotyping; probe; autosomal recessive retinitis pigmentosa; arr; PCR;
XX chromosome 15q26; transgenic; ASO; allele specific oligonucleotide.

XX OS Homo sapiens.

XX WO200192278-A2.

XX 06-DEC-2001.

XX 23-MAY-2001; 2001WO-US017252.

XX 26-MAY-2000; 2000US-0207618P.

XX (GENA-) GENNAISSANCE PHARM INC.

XX Choi JY, Kazemi A, Koshy B;

XX WPI; 2002-122053/16.

XX New genetic variants having polymorphisms in the retinaldehyde-binding
PT protein 1 gene, useful for studying the function of and for expressing
PT RLBPL protein for use in screening drugs for treating diseases related to
PT RLBPL activity.

XX Claim 18; Page 14; 107pp; English.

XX	The invention relates to an isolated polynucleotide, which comprises
CC	genes and haplotypes of the retinaldehyde-binding protein 1 (RBP1) gene.
CC	The polynucleotide comprises polymorphic sites in the RBP1 gene, which
CC	are referred to as PS1-24 to designate the order in which they are
CC	located in the gene. Also included are methods for haplotyping or
CC	genotyping the RBP1 gene of an individual, a method for predicting a
CC	haplotype pair for the RBP1 gene of an individual, a method for
CC	identifying an association between a trait and at least one haplotype or
CC	haplotype pair of the RBP1 gene, a composition comprising at least one
CC	genotyping oligonucleotide for detecting a polymorphism in the RBP1 gene
CC	at a PS consisting of PS1-PS24, a kit for genotyping the RBP1 gene of an
CC	individual comprising a set of oligonucleotides designed to genotype each
CC	of PS1-PS24 recombinant non-human organisms transformed or transfected
CC	with the isolated polynucleotide, where the organism expresses a RBP1
CC	protein encoded by the first nucleotide sequence or expresses an RBP1
CC	protein encoded by the polymorphic variant sequence, an isolated
CC	polypeptide comprising an amino acid sequence that is a polymorphic
CC	variant of a reference sequence for the RBP1 protein or its fragment, an
CC	anti-RBP1 antibody, a method for screening for drugs targeting the
CC	isolated polypeptide, and a computer system for storing and analysing
CC	polymorphism data for the RBP1 oncogene gene. The polynucleotide
CC	comprising polymorphisms in the RBP1 gene is useful in studying the
CC	expression and function of RBP1, and in expressing RBP1 protein for use
CC	in screening candidate drugs to treat diseases related to RBP1 activity
CC	(e.g. autosomal recessive retinitis pigmentosa (arrp)). The methods and
CC	haplotypes are useful in improving the efficiency and output of several
CC	steps in the drug discovery and development process, including target
CC	validation, identifying lead compounds, and early phase clinical trials.
CC	These are also useful for designing clinical trials of candidate drugs
CC	for treating a specific condition or disease, as well as for screening
CC	compounds targeting RBP1 to treat a specific condition or disease
CC	useful to be associated with RBP1 activity. The kit and method are
CC	provided for determining whether an individual has one of the haplotypes or
CC	haplotype pairs cited above. The transgenic animals are useful for
CC	studying expression of the RBP1 isogenes in vivo, for in vivo screening
CC	and testing of drugs targeted against RBP1 protein, and for testing the
CC	efficacy of therapeutic agents and compounds for retinal diseases in a
CC	biological system. The gene for RBP1 is located on chromosome 15q26. The
CC	present sequence is an allele specific oligonucleotide (ASO) PCR primer
CC	for amplifying a nucleic acid containing a polymorphic RBP1 sequence,
CC	using the primer extension method
XX	
SQ	Sequence 10 BP; 3 A; 4 C; 2 G; 1 T; 0 U; 0 Other;
QY	Query Match 40.0%; Score 8; DB 1; Length 10; Best Local Similarity 100.0%; Pred.No. 66; Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0.
Db	1023 GCCCAGAGA 1030 1 GCCCAGAGA 8
RESULT 190	
ABK23697	ID ABK23697 standard; DNA; 10 BP.
XX	
AC	ABK23697;
XX	
DT	09-APR-2002 (first entry)
XX	
DE	Transcript tag DNA sequence #286 induced or suppressed by N-myc.
XX	
KW	Myc-dependent downstream gene; neoplastic; cancer; growth; invasion; spread; myc target; myc tag; SAGE; serial analysis of gene expression; myc oncogene; N-myc; human neuroblastoma; cytostatic; ds.
XX	
OS	Homo sapiens.
XX	
XN	WO200185941-A2.
DD	15-NOV-2001.

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XX 11-MAY-2001; 2001WO-NL000361.
PF
XX 11-MAY-2000; 2000EP-00201698.
PR 11-MAY-2000; 2000EP-00201698.
PR 29-JUN-2000; 2000EP-00202284.
XX
PA (UWAM-) UNIV AMSTERDAM ACAD ZIEKENHUIS BIJ VAN.
XX
XX Versteege R, Caron HN;
PI
XX WPI; 2002-066603/09.
DR
XX A new nucleic acid library of myc-dependent downstream genes capable of
PT supporting a neoplastic characteristic of cancer is useful to find new
PT therapies and diagnoses for cancer.
XX
XX Disclosure; Page 57; 69pp; English.
XX
CC The present invention relates to a nucleic acid library comprising myc-
CC dependent downstream genes or their functional fragments essentially
CC capable of supporting a neoplastic character of cancer such as growth,
CC invasion or spread. These myc target or tag sequences are identified by
CC SAGE (serial analysis of gene expression). The library is useful to find
CC new diagnoses and treatments for cancer. The invention is also useful to
CC enhance production of recombinant proteins in a production system with
CC high expression of endogenous or transfected myc oncogenes. ABR23412-
CC ABR23428 represent transcript tag DNA sequences that are activated or
CC repressed by N-myc in human neuroblastoma
XX
SQ Sequence 10 BP; 1 A; 4 C; 1 G; 4 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1018 CTTCTGCC 1025
DB 2 CTTCTGCC 9
|||||||
|||||||

RESULT 191
PI AAS16818/c
ID AAS16818 standard; DNA; 10 BP.
XX
XX AAS16818;
AC
XX
XX 14-FEB-2002 (first entry)
DT
XX
XX Human apolipoprotein C1 (APOC1) gene PCR primer #4.
DE
XX
XX Human; apolipoprotein C1; APOC1; single nucleotide polymorphism;
KM haplotyping; haplotype pair; hypercholesterolaemia; noctropic; SDR; ss;
KW senile dementia of Alzheimer's type; neuroprotective; antilipemic;
XX PCR primer.
XX
XX Homo sapiens.
OS
XX
XX WO200177129-A2.
PN
XX
XX 18-OCT-2001.
PD
XX
XX 10-APR-2001; 2001WO-US011808.
PF
XX
XX 11-APR-2000; 2000US-0196545P.
PR
XX
XX (GENA-) GENAISSANCE PHARM INC.
PA
XX
XX Bentivegna SC, Chew A, Choi JY, Koshy B, Stephens JC;
PI
XX WPI; 2002-041286/05.
DR
XX
XX New haplotypes of the human apolipoprotein C1 gene, useful to detect and
PT find treatment for disease associated with its activity such as
XX

```

PT hypercholesterolemia and Alzheimer's disease.
XX
XX Claim 18; Page 13; 51pp; English.
XX
CC The invention relates to single nucleotide polymorphisms in the human
CC apolipoprotein C1 (APOC1) gene. Haplotyping the APOC1 gene of an
CC individual, comprises determining if the individual has one of the APOC1
CC haplotypes or haplotype pairs fully defined in the specification.
CC Genotyping the APOC1 gene of an individual, comprises determining the
CC identity of the nucleotide pair at one or more polymorphic sites and
CC predicting a haplotype pair for the APOC1 gene of an individual by
CC enumerating all possible haplotype pairs which are consistent with the
CC genotype, comparing the possible haplotype pairs to the data detailed in
CC the specification and assigning a haplotype pair to the individual that
CC is consistent with the data. Identifying an association between a trait
CC and a haplotype or haplotype pair of the APOC1 gene, comprises comparing
CC the frequency of the haplotype/haplotype pair in a population exhibiting
CC the trait with that of a reference population, where the
CC haplotype/haplotype pair is one described in the specification and a
CC higher frequency in the trait population indicates the trait is
CC associated with the haplotype. The sequences and methods of the invention
CC are used to diagnose and develop treatment for disease associated with
CC APOC1 activity, such as hypercholesterolaemia and senile dementia of
CC Alzheimer's type (SDAT). This sequence represents a PCR primer used for
CC detecting human APOC1 DNA polymorphisms
XX
SQ Sequence 10 BP; 2 A; 5 C; 1 G; 2 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1029 GAAGGTGG 1036
Db 9 GAAGGTGG 2
RESULT 192
ADOC9948/c
ID ADOC9948 standard; DNA; 10 BP.
XX
AC ADOC9948;
XX
DT 18-DEC-2003 (first entry)
XX
DE Optical nucleic acid sensor molecule-related oligo, SEQ ID 360.
XX
KW Nucleic acid sensor molecule; ligase; cis-hammerhead; protein kinase; ds.
XX
OS Synthetic.
XX
PN WO2003014375-A2.
XX
PD 20-FEB-2003.
XX
PF 09-AUG-2002; 2002MO-US025319.
XX
PR 09-AUG-2001; 2001US-0311378P.
PR 21-AUG-2001; 2001US-0313932P.
PR 13-SEP-2001; 2001US-00952680.
PR 13-NOV-2001; 2001US-0338186P.
PR 18-JAN-2002; 2002US-0349959P.
PR 13-MAR-2002; 2002US-0364486P.
PR 25-MAR-2002; 2002US-0367991P.
PR 04-APR-2002; 2002US-0369887P.
PR 01-MAY-2002; 2002US-0376744P.
PR 31-MAY-2002; 2002US-0385097P.
XX
PA (ARCH-) ARCHEMIX CORP.
XX
PI Stanton M, Epstein D, Hamaguchi N, Kurz M, Keefe T, Wilson C;
PI Grate D, Marshall KA, McCauley T, Kurz J;
XX

DR WPI; 2003-300534/29.
XX
XX Nucleic acid sensor molecule, for identifying/detecting protein kinase in
PT a sample, comprises a target modulation domain which recognizes a target
PT molecule, a linker domain, a catalytic domain, and an optical signal
PT generator.
XX
XX Example 39; SEQ ID NO 360; 423pp; English.
XX
CC The present invention relates to nucleic acid sensor molecules (I), which
CC comprise a target modulation domain that recognizes a target molecule
CC (TM), a linker domain, a catalytic domain, and an optical signal
CC generating unit. The catalytic domain comprises a ligase or cis-
CC hammerhead. (I) are useful for identifying or detecting TM in a sample,
CC preferably a protein kinase in a sample. Target molecules include
CC proteins, post-translationally modified forms of proteins, peptides,
CC nucleic acids, oligosaccharides, nucleotides, metabolites, drugs, toxins,
CC biohazards, ions, carbohydrates, polysaccharides, hormones, receptors,
CC antigens, antibodies, viruses, metabolites, co-factors, drugs, dyes,
CC nutrients, growth factors, cAMP, cGMP, protein kinase,
CC phosphorylated protein kinase, extracellular signal regulated kinase
CC (ERK), a component or product of mitogen activated protein (MAP) kinase
CC pathway, a MAP kinase pathway associated protein, an extracellular
CC component of MAP kinase pathway, a component of ERK1/2 MAP, JNK MAP or
CC p38 MAP kinase pathway, an endogenous form of MAP kinase (MEK), MAP
CC kinase kinase, or MAP kinase (MEKK), or RAF kinase, Ras protein,
CC phosphatase, GTP binding protein, G-protein coupled receptor (GPCR),
CC cytokine, growth factor, cellular metabolite, small molecule or lysosome.
CC (I) are also useful for identifying a modulator of protein kinase
CC activity. The present sequence was used to illustrate the invention.
XX
SQ Sequence 10 BP; 0 A; 1 C; 3 G; 6 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1024 CCCAGGAA 1031
Db 9 CCCAGGAA 2
RESULT 193
AD113743
ID AD113743 standard; DNA; 10 BP.
XX
AC AD113743;
XX
DT 22-APR-2004 (first entry)
XX
DE Cytoplasmic tumour endothelial marker standard tag SEQ ID NO:118.
XX
KW tumour endothelial marker; TEM; endothelial cell regulation;
KW neovascularization inhibition; neovascularization screening;
KW neovascularization promotion; neovascularization; tumour; wound healing;
KW cytoskeletal; vulnereary; human; standard tag; ss.
XX
OS Homo sapiens.
XX
OS Synthetic.
XX
PN WO2004005883-A2.
XX
PD 15-JAN-2004.
XX
PF 02-JUL-2003; 2003MO-US016250.
XX
PR 02-JUL-2002; 2002US-0393023P.
PR 01-APR-2003; 2003US-0458964P.
XX
PA (UYJO) UNIV JOHNS HOPKINS.
XX
PI St Croix B, Kinzler KW, Vogelstein B;
XX

DR WPI; 2004-142995/14.
XX
PT Use of tumor endothelial marker proteins for inhibiting neovascularization,
PT screening for neovascularization, promoting neovascularization, identifying
PT candidate drugs for treating tumors or promoting wound healing.
XX
PS Disclosure; SEQ ID NO 118; 113bp; English.
XX
CC The present invention describes the use of tumor endothelial marker
CC (TEM) proteins for identifying a ligand involved in endothelial cell
CC regulation, inhibiting neovascularization, screening for neovascularization,
CC promoting neovascularization, identifying candidate drugs for treating
CC tumors or promoting wound healing or identifying endothelial cells. Also
CC described: (1) identification of a ligand involved in endothelial cell
CC regulation; (2) inhibiting neovascularization; (3) promoting neovascularization
CC in a patient; (4) screening for neovascularization in a patient; (5)
CC and (6) identifying endothelial cells. TEM proteins have cytoskeletal and
CC ligand activities. The TEM proteins are useful for identifying a
CC ligand involved in endothelial cell regulation, inhibiting
CC neovascularization, screening for neovascularization, promoting
CC neovascularization, identifying candidate drugs for treating tumors or
CC promoting wound healing or identifying endothelial cells. The present
CC sequence represents a cytoplasmic tumor endothelial marker standard tag
CC oligonucleotide, which is used in the exemplification of the present
CC invention.
XX
SQ Sequence 10 BP; 1 A; 4 C; 1 G; 4 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1018 CTTCTGCC 1025
DB 2 CTTCTGCC 9
RESULT 194
ADK13070
ID ADK13070 standard; DNA; 10 BP.
XX
AC ADK13070;
XX
DT 20-MAY-2004 (first entry)
XX
DE Human glioma endothelial marker (GEM) standard tag SEQ ID NO:248.
XX
KM glioma; brain tissue; neoplastic; glioma endothelial marker; GEM;
KM anticancer; anti-glioma; immune response; cytostatic;
KM multi-drug sensitive glioma; human; standard tag; ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
PN WO2004016758-A2.
XX
PD 26-FEB-2004.
XX
PF 15-AUG-2003; 2003WO-US025614.
XX
PR 15-AUG-2003; 2002US-0403390P.
PR 01-APR-2003; 2003US-0458978P.
XX
PA (GEN2) GENZYME CORP.
PA (UJCO) UNIV JOHNS HOPKINS.
XX
PI Madden SI, Wang CJ, Cook BP, Latcera J, Walter K;
XX WPI; 2004-247973/23.
XX
PT Diagnosing glioma by detecting expression product of any one of 255
PT genes, glioma endothelial markers, in brain tissue sample suspected of

PT being neoplastic, and comparing the expression with expression in normal
PT brain tissue sample.
XX
PS Example 2; SEQ ID NO 248; 113bp; English.
XX
CC The present invention describes a method (M1) for aiding in the diagnosis
CC of glioma. (M1) involves detecting an expression product of at least one
CC gene (I) in a first brain tissue sample (T) suspected of being
CC neoplastic, where (I) is chosen from any one of 255 genes (glioma
CC endothelial markers (GEMs)) as given in specification, and comparing the
CC expression of (I) in (T) with expression of (I) in a second normal brain
CC tissue sample (R), where increased expression of (I) in (T) relative to
CC (R), identifies (T) as likely to be neoplastic. Also described: (1)
CC treating (M2) glioma involves contacting cells of the glioma with an
CC antibody that specifically binds to an extracellular epitope; (2)
CC identifying (M3) a test compound as potential anticancer or anti-glioma
CC drug involves contacting a test compound with the cell which expresses
CC (I), monitoring an expression product of the at least one gene and
CC identifying test compound as a potential anticancer drug if it decreases
CC the expression of at least one gene; (3) identifying (M4) a test compound
CC as potential anticancer or anti-glioma drug involves contacting a test
CC compound with the cell which expresses mRNA of at least one gene
CC identified by a tag as described above, monitoring mRNA of the gene, and
CC identifying the expression of at least one gene; and (4) inducing (M5) an
CC immune response to glioma involves administering to a mammal, a protein
CC or (I). (I) have cytostatic activities, and can be used to trigger immune
CC destruction of glioma cells, and as immune response inducers. (M1) is
CC useful for aiding in diagnosing glioma. (M2) is useful for treating multi-
CC drug sensitive glioma in a human. (M5) is useful for inducing an immune
CC response to a glioma in a mammal having glioma or in a mammal who has had
CC a glioma surgically removed. The present sequence represents a human GEM
CC standard tag oligonucleotide, which is used in the exemplification of the
CC present invention.
XX
SQ Sequence 10 BP; 0 A; 4 C; 2 G; 4 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1018 CTTCTGCC 1025
DB 3 CTTCTGCC 10
RESULT 195
ADM57243
ID ADM57243 standard; DNA; 10 BP.
XX
AC ADM57243;
XX
DT 03-JUN-2004 (first entry)
XX
DE A thaliana herbicide target related adaptor sequence #2.
XX
KM ss; adaptor; plant; herbicide; crease.
XX
OS Synthetic.
OS Synthetic.
XX
PN WO2004022780-A2.
XX
PD 18-MAR-2004.
XX
PF 30-JUL-2003; 2003WO-EP008393.
XX
PR 16-AUG-2002; 2002DE-01038434.
XX
PA (META-) METANOMICS GMBH & CO KGAA.
XX Plesch G, Blau A, Daeschner K;
XX WPI; 2004-315575/29.
XX
PT

XX Identifying herbicides and growth regulators, comprises testing compounds
 PT for activity against specific nucleic acid or encoded proteins, also
 PT preparation of herbicide-tolerant plants.

XX Example 2; Page 70; 205pp; German.

XX The present invention relates to a method for identifying substances with
 CC herbicidal activity from their ability to reduce or block the expression
 CC or activity of specific genes or nucleic acids or the amino acid
 CC sequences encoded by them. In particular, the sequences are from
 CC Arabidopsis thaliana. The method can identify herbicides with species-
 CC independent activity and can be used to screen combinatorial libraries.
 CC The present sequence is an adaptor sequence used in the exemplification
 CC of the invention.

XX SQ Sequence 10 BP; 3 A; 5 C; 1 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 66;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1021 CTGCCCAA 1028
 |||||
 |||||
 Db 3 CTGCCCAA 10

Search completed: December 3, 2004, 11:40:34
 Job time : 1 secs

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OM nucleic - nucleic search, using sw model

Run on: December 3, 2004, 11:41:56 ; Search time 0.001 Seconds

(Without alignments)
14.120 Million cell updates/sec

Title: us-10-024-369-3

Perfect score: 20

Sequence: 1 cttctgcacagagagtggtg 20

Scoring table: IDENTITY NUC

Gapop 10.0 ; Gapext 0.5

Searched: 36 seqs, 353 residues

Total number of hits satisfying chosen parameters: 72

Minimum DB seq length: 8

Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 36 summaries

Database: rmlnb:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	9	45.0	11	1	US-09-862-847-15
C 2	9	45.0	12	1	US-09-862-844-6
C 3	9	45.0	12	1	US-09-862-844-8
C 4	8.4	42.0	10	1	US-08-410-7798-47
C 5	8.4	42.0	10	1	US-09-508-753B-225
6	8.4	42.0	10	1	PCT-US95-04477-47
7	8.4	42.0	11	1	US-08-401-512-15
8	8.4	42.0	11	1	US-08-481-658B-73
9	8.4	42.0	11	1	US-08-477-504A-73
10	8.4	42.0	11	1	US-08-486-756A-73
11	8.4	42.0	11	1	US-08-485-862B-73
12	8.4	42.0	11	1	US-08-787-739-73
13	8.4	42.0	11	1	US-08-487-077A-73
14	8.4	42.0	11	1	US-08-485-863A-73
15	8.4	42.0	11	1	US-08-485-049D-73
16	8.4	42.0	11	1	US-09-178-115-73
17	8.4	42.0	11	1	US-09-177-776-73
18	8.4	42.0	11	1	US-09-772-719B-73
19	8	40.0	10	1	US-08-049-283A-31
20	8	40.0	10	1	US-08-049-283A-33
21	8	40.0	10	1	US-09-508-753B-70
22	7.4	37.0	9	1	US-08-437-013-6
23	7.4	37.0	9	1	US-09-275-506A-6
24	7.4	37.0	9	1	US-09-639-576-2
25	7	35.0	8	1	US-08-593-345B-19
26	7	35.0	8	1	US-08-859-954-55
27	7	35.0	8	1	US-08-859-954-248
28	7	35.0	8	1	US-08-859-954-249
29	7	35.0	8	1	US-08-859-954-267
30	7	35.0	8	1	US-08-859-954-406
31	7	35.0	8	1	US-08-859-954-540
32	7	35.0	8	1	US-08-855-372B-6
33	7	35.0	8	1	US-09-498-851-6

C 34	7	35.0	9	1	US-08-068-945A-36
C 35	7	35.0	9	1	US-08-442-806-36
C 36	7	35.0	9	1	US-09-063-450-10

ALIGNMENTS

RESULT 1
US-09-862-847-15/c
; Sequence 15, Application US/09862847
; Patent No. 6593111
; GENERAL INFORMATION:
; APPLICANT: Baric, Ralph S.
; APPLICANT: Boyd, Yount
; TITLE OF INVENTION: DIRECTION ASSEMBLY OF LARGE VIRAL GENOMES AND CHROMOSOMES
; FILE REFERENCE: 5470.270
; CURRENT APPLICATION NUMBER: US/09/862,847
; CURRENT FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: US 60/206,537
; PRIOR FILING DATE: 2000-05-21
; PRIOR APPLICATION NUMBER: US 60/285,320
; PRIOR FILING DATE: 2001-04-20
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide primer.
US-09-862-847-15

Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1025 CCAGAAGG 1033
DB 10 CCAGAAGG 2

RESULT 2
US-09-862-844-6/c
; Sequence 6, Application US/09862844
; Patent No. 6583986
; GENERAL INFORMATION:
; APPLICANT: Cai, Hong
; APPLICANT: Keller, Richard
; APPLICANT: Warner, James
; APPLICANT: Goodwin, Peter
; TITLE OF INVENTION: RAPID HAPLOTYPE BY SINGLE MOLECULE DETECTION
; FILE REFERENCE: S-94,652
; CURRENT APPLICATION NUMBER: US/09/862,844
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 12
; TYPE: DNA
; ORGANISM: PNA probe MLTCySP
US-09-862-844-6

Query Match 45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 3.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1023 GCCCAAGAA 1031
DB 10 GCCCAAGAA 2

RESULT 3

US-09-862-844-8/c
; Sequence 8, Application US/09862844
; Patent No. 6583986
; GENERAL INFORMATION:
; APPLICANT: Cai, Hong
; APPLICANT: Keller, Richard
; APPLICANT: Warner, James
; APPLICANT: Goodwin, Peter
; TITLE OF INVENTION: RAPID HAPLOTYPING BY SINGLE MOLECULE DETECTION
; FILE REFERENCE: S-94, 652
; CURRENT APPLICATION NUMBER: US/09/862,844
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
; LENGTH: 12
; TYPE: DNA
; ORGANISM: LNA probe MLCy5L
US-09-862-844-8

Query Match 45.0%; Score 9; DB 1; length 12;
Best Local Similarity 100.0%; Pred. No. 3.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1023 GCCCAGAA 1031
Db 10 GCCCAGAA 2

RESULT 4
US-08-410-779B-47
; Sequence 47, Application US/08410779B
; Patent No. 5814517
; GENERAL INFORMATION:
; APPLICANT: SEIDEL, H. MARTI
; APPLICANT: LAMB, J. PETER
; TITLE OF INVENTION: DNA SPACER REGULATORY ELEMENTS
; TITLE OF INVENTION: RESPONSIVE TO CYTOKINES AND METHODS FOR THEIR USE
; NUMBER OF SEQUENCES: 166
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LIGAND PHARMACEUTICALS INCORPORATED
; STREET: 9993 TONNE CENTRE DRIVE
; CITY: SAN DIEGO
; STATE: CALIFORNIA
; COUNTRY: US
; ZIP: 92121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/410,779B
; FILING DATE: 27-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/228,935
; FILING DATE: 14-APR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: JURGENSEN, THOMAS E
; REGISTRATION NUMBER: 34,195
; REFERENCE/DOCKET NUMBER: 016-0013A.US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 550-7675
; TELEFAX: (619) 535-3906
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULAR TYPE: other nucleic acid
; DESCRIPTION: /desc = "OTHER NUCLEIC ACID,"

DESCRIPTION: SYNTHETIC DNA"
US-08-410-779B-47

Query Match 42.0%; Score 8.4; DB 1; length 10;
Best Local Similarity 90.0%; Pred. No. 6.8;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1022 TGCCCAAGAA 1031
Db 1 TTCCCAAGAA 10

RESULT 5
US-09-508-753B-225/c
; Sequence 225, Application US/09508753B
; Patent No. 6544736
; GENERAL INFORMATION:
; APPLICANT: AKITA, SHIMAMOTO
; APPLICANT: Yasuhiro FURUICHI
; APPLICANT: YUKO SHIBATA
; APPLICANT: HIROKO FUNAKI
; APPLICANT: Eiji OHARA
; APPLICANT: Masamori WATANAKI
; TITLE OF INVENTION: Method for Synthesizing cDNA from mRNA sample
; FILE REFERENCE: 00162/HG
; CURRENT APPLICATION NUMBER: US/09/508,753B
; CURRENT FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: JP 9/270324
; PRIOR FILING DATE: 1997-09-18
; NUMBER OF SEQ ID NOS: 472
; SEQ ID NO 225
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-508-753B-225

Query Match 42.0%; Score 8.4; DB 1; length 10;
Best Local Similarity 90.0%; Pred. No. 6.8;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1021 CTGCTCAGAA 1030
Db 10 CTGCTCAGAA 1

RESULT 6
PCT-US95-04477-47
; Sequence 47, Application PC/TUS9504477
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: DNA SPACER REGULATORY ELEMENTS RESPONSIVE TO
; TITLE OF INVENTION: CYTOKINES AND METHODS FOR THEIR USE
; NUMBER OF SEQUENCES: 165
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/04477
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/228,935
; FILING DATE: 14-APR-1994
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "OTHER NUCLEIC ACID,
DESCRIPTION: SYNTHETIC DNA"
PCT-US95-04477-47

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 6.8;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 TGCCCAAGAA 1031
|||
Db 1 TTCCCAAGAA 10

RESULT 7
US-08-401-512-15
Sequence 15, Application US/08401512
Patent No. 559673
GENERAL INFORMATION:
APPLICANT: Keating, Mark T.
APPLICANT: Curran, Mark E.
TITLE OF INVENTION: Long QT Syndrome Genes
NUMBER OF SEQUENCES: 81
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, Suite 1000
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3917
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/401,512
FILING DATE: 09-MAR-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Saxe, Stephen A.
REGISTRATION NUMBER: 38,609
REFERENCE/DOCKET NUMBER: 19780-113879
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-8300
TELEFAX: 202-962-8488
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-08-401-512-15
Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAAGTGGG 1037
|||
Db 1 AGCAGTGGG 10

RESULT 8
US-08-481-658B-73
Sequence 73, Application US/08481658B
Patent No. 5955075
GENERAL INFORMATION:

APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Leona L. Lauder
STREET: 6 Mariposa Court
CITY: Tiburon
STATE: California
COUNTRY: USA
ZIP: 94920
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (BPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/481,658B
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3E
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-435-2034
TELEFAX: 415-435-0727
INFORMATION FOR SEQ ID NO: 73:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
DESCRIPTION: 5' donor consensus splice sequence
US-08-481-658B-73

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAAGTGGG 1037
|||
Db 1 AGCAGTGGG 10

RESULT 9
US-08-477-504A-73
Sequence 73, Application US/08477504A
Patent No. 5972353
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Leona L. Lauder
STREET: 6 Mariposa Court
CITY: Tiburon
STATE: California
COUNTRY: USA
ZIP: 94920
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (BPO)
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/477,504A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3D
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-435-2034
TELEFAX: 415-435-0727
INFORMATION FOR SEQ ID NO: 73:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
DESCRIPTION: 5' donor consensus splice sequence
US-08-477-504A-73

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Cy 1028 AGAAGTGGG 1037
Db 1 AGCAGGTGGG 10

RESULT 10

US-08-486-756A-73

Sequence 73, Application US/08486756A
Patent No. 5981711
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 6 Mariposa Court
CITY: Tiburon
STATE: California
COUNTRY: USA
ZIP: 94920
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/486,756A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3C
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-435-2034
TELEFAX: 415-435-0727
INFORMATION FOR SEQ ID NO: 73:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs
TYPE: nucleic acid
STRANDEDNESS: single

TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
DESCRIPTION: 5' donor consensus splice sequence
US-08-486-756A-73

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Cy 1028 AGAAGTGGG 1037
Db 1 AGCAGGTGGG 10

RESULT 11

US-08-485-862B-73

Sequence 73, Application US/08485862B
Patent No. 5989838
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 6 Mariposa Court
CITY: Tiburon
STATE: California
COUNTRY: USA
ZIP: 94920
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,862B
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/477,504
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3D
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-435-2034
TELEFAX: 415-435-0727
INFORMATION FOR SEQ ID NO: 73:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
DESCRIPTION: 5' donor consensus splice sequence
US-08-485-862B-73

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Cy 1028 AGAAGTGGG 1037
Db 1 AGCAGGTGGG 10

RESULT 12

US-08-787-739-73

; Sequence 73, Application US/08787739
; Patent No. 6027887
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: MN Gene and Protein
; NUMBER OF SEQUENCES: 96
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Leona L. Lauder
; STREET: 369 Pine Street, Suite 610
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/787,739
; FILING DATE: 24-JAN-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,049
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/486,756
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/477,504
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/481,658
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,862
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,863
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/487,077
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Lauder, Leona L.
; REGISTRATION NUMBER: 30,863
; REFERENCE/DOCKET NUMBER: D-0021.4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-981-2034
; TELEFAX: 415-981-0332
; INFORMATION FOR SEQ ID NO: 73:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; DESCRIPTION: 5' donor consensus splice sequence
; US-08-787-739-73

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

CY 1028 AGAAGTGGG 1037
|||
1 AGCAGGTGGG 10

Db

RESULT 13
US-08-487-077A-73
; Sequence 73, Application US/08487077A

; Patent No. 6069242
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: MN Gene and Protein
; NUMBER OF SEQUENCES: 86
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Leona L. Lauder
; STREET: 6 Mariposa Court
; CITY: Tiburon
; STATE: California
; COUNTRY: USA
; ZIP: 94920
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,077A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/260,190
; FILING DATE: 15-JUN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lauder, Leona L.
; REGISTRATION NUMBER: 30,863
; REFERENCE/DOCKET NUMBER: D-0021.3H
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-435-2034
; TELEFAX: 415-435-0727
; INFORMATION FOR SEQ ID NO: 73:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; DESCRIPTION: 5' donor consensus splice sequence
; US-08-487-077A-73

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

CY 1028 AGAAGTGGG 1037
|||
1 AGCAGGTGGG 10

Db

RESULT 14
US-08-485-863A-73
; Sequence 73, Application US/08485863A
; Patent No. 6093548
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: MN Gene and Protein
; NUMBER OF SEQUENCES: 86
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Leona L. Lauder
; STREET: 6 Mariposa Court
; CITY: Tiburon
; STATE: California
; COUNTRY: USA
; ZIP: 94920
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,863A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3G
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-435-2034
TELEFAX: 415-435-0727
INFORMATION FOR SEQ ID NO: 73:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-485-863A-73
DESCRIPTION: 5' donor consensus splice sequence

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAAGTGGG 1037
Db 1 AGCAGGTGGG 10

RESULT 15
US-08-485-049D-73
Sequence 73, Application US/08485049D
Patent No. 6204370
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 369 Pine Street
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,049D
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3E
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-981-0332
TELEFAX: 415-981-0332
INFORMATION FOR SEQ ID NO: 73:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-485-049D-73
DESCRIPTION: 5' donor consensus splice sequence

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAAGTGGG 1037
Db 1 AGCAGGTGGG 10

RESULT 16
US-09-178-115-73
Sequence 73, Application US/09178115
Patent No. 6297041
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
FILE REFERENCE: D-0021.5A
CURRENT APPLICATION NUMBER: US/09/178,115
CURRENT FILING DATE: 1998-10-23
EARLIER APPLICATION NUMBER: 09/177,776
EARLIER FILING DATE: 1998-10-23/177,776
EARLIER APPLICATION NUMBER: 08/787,739
EARLIER FILING DATE: 1997-01-24
EARLIER APPLICATION NUMBER: 08/485,049
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/486,756
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/477,504
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/481,658
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/485,862
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/485,863
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/487,077
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/260,190
EARLIER FILING DATE: 1994-06-15
EARLIER APPLICATION NUMBER: 08/177,093
EARLIER FILING DATE: 1993-12-30
EARLIER APPLICATION NUMBER: 07/964,589
EARLIER FILING DATE: 1992-10-21
EARLIER APPLICATION NUMBER: PV-709-92
EARLIER FILING DATE: 1992-03-11
NUMBER OF SEQ ID NOS: 116
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 73
LENGTH: 11
TYPE: DNA
ORGANISM: HUMAN
US-09-178-115-73

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1028 AGAAGTGGG 1037
Db 1 AGCAGGTGGG 10

RESULT 17
US-09-177-776-73

Sequence 73, Application US/0917776A
Patent No. 6297051
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
FILE REFERENCE: D-0021.5A
CURRENT APPLICATION NUMBER: US/09/177,776A
EARLIER FILING DATE: 1998-10-23
EARLIER APPLICATION NUMBER: 08/787,739
EARLIER FILING DATE: 1997-01-24
EARLIER APPLICATION NUMBER: 08/485,049
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/486,756
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/477,504
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/481,658
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/485,862
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/485,863
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/487,077
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/260,190
EARLIER FILING DATE: 1994-06-15
EARLIER APPLICATION NUMBER: 08/177,093
EARLIER FILING DATE: 1993-12-30
EARLIER APPLICATION NUMBER: 07/964,589
EARLIER FILING DATE: 1992-10-21
EARLIER APPLICATION NUMBER: PV-709-92
EARLIER FILING DATE: 1992-03-11
NUMBER OF SEQ ID NOS: 116
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 73
LENGTH: 11
TYPE: DNA
ORGANISM: HUMAN
US-09-177-776-73

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1028 AGAAGTGGG 1037
Db 1 AGCAGGTGGG 10

RESULT 18
US-09-772-719B-73
Sequence 73, Application US/09772719B
Patent No. 6770438
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 465 California Street, Suite 450
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94104
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/772,719B
FILING DATE: 30-Jan-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,049
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3A-2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-981-2034
TELEFAX: 415-981-0332
INFORMATION FOR SEQ ID NO: 73:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
DESCRIPTION: 5' donor consensus splice sequence
SEQUENCE DESCRIPTION: SEQ ID NO: 73:
US-09-772-719B-73

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 6.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1028 AGAAGTGGG 1037
Db 1 AGCAGGTGGG 10

RESULT 19
US-08-049-283A-31
Sequence 31, Application US/08049283A
Patent No. 5502176
GENERAL INFORMATION:
APPLICANT: Tenen, Daniel G.
APPLICANT: Pahl, Helke L.
APPLICANT: Burn, Timothy C.
TITLE OF INVENTION: Cell Specific Promoter and Uses Thereof
NUMBER OF SEQUENCES: 34
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Willetta Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: USA
ZIP: 02173
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/049,283A
FILING DATE: 14-APR-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/020,465
FILING DATE: 19-FEB-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/837,776
FILING DATE: 13-FEB-1992
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: BIH91-03'A
TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-049-283A-31

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 8.7;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1018 TTCTGCC 1025
Db 1 TTCTGCC 8

RESULT 20
US-08-049-283A-33
Sequence 33, Application US/08049283A
Patent No. 5502176
GENERAL INFORMATION:
APPLICANT: Tenen, Daniel G.
APPLICANT: Pahl, Heike L.
APPLICANT: Burr, Timothy C.
TITLE OF INVENTION: Cell Specific Promoter and Uses Thereof
NUMBER OF SEQUENCES: 34
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Millitia Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: USA
ZIP: 02173

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/049,283A
FILING DATE: 14-APR-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/020,465
FILING DATE: 19-FEB-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/837,776
FILING DATE: 13-FEB-1992
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: B1H91-03'A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 33:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-049-283A-33

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 8.7;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1019 TTCTGCC 1026
Db 3 TTCTGCC 10

RESULT 21
US-09-508-753B-70
Sequence 70, Application US/09508753B
Patent No. 6544736
GENERAL INFORMATION:
APPLICANT: Akira SHIMAMOTO
APPLICANT: Yasuniro FURUICHI
APPLICANT: YUKO SHIBATA
APPLICANT: HIROKO FUNAKI
APPLICANT: Eiji OHARA
APPLICANT: Masamori WATAHIKI
TITLE OF INVENTION: Method for Synthesizing cDNA from mRNA sample
FILE REFERENCE: 00162/HG
CURRENT APPLICATION NUMBER: US/09/508,753B
CURRENT FILING DATE: 2000-06-16
PRIOR APPLICATION NUMBER: JP 9/270324
PRIOR FILING DATE: 1997-09-18
NUMBER OF SEQ ID NOS: 472
SEQ ID NO 70
LENGTH: 10
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-508-753B-70

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 8.7;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1019 TTCTGCC 1026
Db 3 TTCTGCC 10

RESULT 22
US-08-437-013-6
Sequence 6, Application US/08437013
Patent No. 5932220
GENERAL INFORMATION:
APPLICANT: Barbour, Alan G.
APPLICANT: Carter, Carol
TITLE OF INVENTION: Diagnostic Tests for a New Spirochete, Borrelia
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: US
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/437,013
FILING DATE: 08-MAY-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Mayfield, Denise L.
REGISTRATION NUMBER: 33,732
REFERENCE/DOCKET NUMBER: UTSK:276/MAY
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-300

```

; TELEFAX: 512/747-7577
; TELEX: NA
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 9 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "DNA"
US-08-437-013-6

Query Match          37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 50;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1020 TCTGCCCAA 1028
Db      1 TCTGCTCAA 9

RESULT 23
US-09-275-506A-6
; Sequence 6, Application US/09275506A
; Patent No. 6617441
; GENERAL INFORMATION:
;   APPLICANT: BARBOUR, ALAN G.
;   APPLICANT: CARTER, CAROL
;   TITLE OF INVENTION: A DIAGNOSTIC TEST FOR INFECTION WITH A SPIROCHETE BORNE
;   FILE REFERENCE: UTSK:352
;   CURRENT APPLICATION NUMBER: US/09/275,506A
;   CURRENT FILING DATE: 1999-03-24
;   PRIOR APPLICATION NUMBER: 08/437,013
;   NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-275-506A-6

Query Match          37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 50;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1020 TCTGCCCAA 1028
Db      1 TCTGCTCAA 9

RESULT 24
US-09-639-576-2
; Sequence 2, Application US/09639576
; Patent No. 6720167
; GENERAL INFORMATION:
;   APPLICANT: Federici, Brian A.
;   APPLICANT: Bideshi, Dennis K.
;   APPLICANT: Park, Hyun-Woo
;   APPLICANT: Wirth, Margaret C.
;   TITLE OF INVENTION: The Regents of the University of California
;   TITLE OF INVENTION: Improved Insecticidal Bacteria, and Methods for Making
;   FILE REFERENCE: 023070-113500US
;   CURRENT APPLICATION NUMBER: US/09/639,576
;   CURRENT FILING DATE: 2000-08-14
;   NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
```

```

; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: STAB-SD from
US-09-639-576-2

Query Match          37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 50;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1029 GAAGTGGG 1037
Db      1 GAAGGGGG 9

RESULT 25
US-08-593-345B-19
; Sequence 19, Application US/08593345B
; Patent No. 5851772
; GENERAL INFORMATION:
;   APPLICANT: Mirzabekov, Andrei D
;   APPLICANT: Lygov, Yuriy P
;   APPLICANT: Shick, Valentine V
;   APPLICANT: Dubiley, Svetlana A
;   TITLE OF INVENTION: A Microchip Method for the Enrichment of
;   NUMBER OF SEQUENCES: 30
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: CHERSKOV & FLAVNIK
;   STREET: 20 N. Wacker Drive
;   CITY: Chicago
;   STATE: Illinois
;   COUNTRY: United States
;   ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.50 inch, 1.4 MB storage
; OPERATING SYSTEM: Macintosh 7.1
; SOFTWARE: wordperfect
; CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/08/593,345B
;   FILING DATE: 29-JAN-96
;   PRIOR APPLICATION DATA: No. 5851772e
; ATTORNEY/AGENT INFORMATION:
;   NAME: Cherskov, Michael J.
;   REGISTRATION NUMBER: 33,664
;   REFERENCE/DOCKET NUMBER: ANL-IN-95-029+30
; TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (312) 621-1330
;   TELEFAX: (312) 621-0088
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 8 bases
;   TYPE: nucleic acid
;   STRANDEDNESS: No. 5851772 Applicable
;   TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; FEATURE:
;   NAME/KEY: No. 5851772e
;   LOCATION: 1-8
; IDENTIFICATION METHOD: Similarity with known sequences.
; OTHER INFORMATION: Complementarity with primer of
; OTHER INFORMATION: exons to a-thalassemia gene.
US-08-593-345B-19

Query Match          35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 57;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1024 CCCAAGA 1030
Db      1 TCTGCTCAA 9
```

Db 1 CCCAAGA 7

RESULT 26

US-08-859-954-55

Sequence 55, Application US/08859954

Patent No. 6083695

GENERAL INFORMATION:

APPLICANT: Hardin, Susan H.

APPLICANT: Homayouni, Ramin

APPLICANT: Hardin, Paul E.

TITLE OF INVENTION: Design and Optimized Primer Library for

TITLE OF INVENTION: Gene Sequencing and Method Thereof

NUMBER OF SEQUENCES: 566

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Fulbright & Jaworski L.L.P.

STREET: 1301 McKinney, Suite 5100

CITY: Houston

STATE: Texas

COUNTRY: U.S.A.

ZIP: 77010-3095

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/859,954

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/632,782

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Paul, Thomas D.

REGISTRATION NUMBER: 32,714

REFERENCE/DOCKET NUMBER: D-5900

TELECOMMUNICATION INFORMATION:

TELEPHONE: 713/651-5325

TELEFAX: 713/651-5246

INFORMATION FOR SEQ ID NO: 55:

SEQUENCE CHARACTERISTICS:

LENGTH: 8 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: other nucleic acid

DESCRIPTION: /desc = "oligonucleotide"

HYPOTHETICAL: YES

ANTI-SENSE: YES

US-08-859-954-55

Query Match 35.0%; Score 7; DB 1; Length 8;

Best Local Similarity 100.0%; Pred. No. 57;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1022 TGCCCAA 1028

2 TGCCCAA 8

Db 2 TGCCCAA 8

RESULT 27

US-08-859-954-248

Sequence 248, Application US/08859954

Patent No. 6083695

GENERAL INFORMATION:

APPLICANT: Hardin, Susan H.

APPLICANT: Homayouni, Ramin

APPLICANT: Hardin, Paul E.

TITLE OF INVENTION: Design and Optimized Primer Library for

TITLE OF INVENTION: Gene Sequencing and Method Thereof

NUMBER OF SEQUENCES: 566

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Fulbright & Jaworski L.L.P.

STREET: 1301 McKinney, Suite 5100

CITY: Houston

STATE: Texas

COUNTRY: U.S.A.

ZIP: 77010-3095

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/859,954

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/632,782

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Paul, Thomas D.

REGISTRATION NUMBER: 32,714

REFERENCE/DOCKET NUMBER: D-5900

TELECOMMUNICATION INFORMATION:

TELEPHONE: 713/651-5325

TELEFAX: 713/651-5246

INFORMATION FOR SEQ ID NO: 248:

SEQUENCE CHARACTERISTICS:

LENGTH: 8 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: other nucleic acid

DESCRIPTION: /desc = "oligonucleotide"

HYPOTHETICAL: YES

ANTI-SENSE: YES

US-08-859-954-248

Query Match 35.0%; Score 7; DB 1; Length 8;

Best Local Similarity 100.0%; Pred. No. 57;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1029 GAAGGTG 1035

1 GAAGGTG 7

Db 1 GAAGGTG 7

RESULT 28

US-08-859-954-249

Sequence 249, Application US/08859954

Patent No. 6083695

GENERAL INFORMATION:

APPLICANT: Hardin, Susan H.

APPLICANT: Homayouni, Ramin

APPLICANT: Hardin, Paul E.

TITLE OF INVENTION: Design and Optimized Primer Library for

TITLE OF INVENTION: Gene Sequencing and Method Thereof

NUMBER OF SEQUENCES: 566

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Fulbright & Jaworski L.L.P.

STREET: 1301 McKinney, Suite 5100

CITY: Houston

STATE: Texas

COUNTRY: U.S.A.

ZIP: 77010-3095

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/859,954

FILING DATE:

CLASSIFICATION:

```

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 249:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
;
US-08-859-954-249

Query Match          35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 57;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1029 GAAGCTG 1035
DB      1 GAAGCTG 7

RESULT 29
US-08-859-954-267
; Sequence 267, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 267:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
;

```

```

; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
;
US-08-859-954-267

Query Match          35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 57;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1027 AAGAGG 1033
DB      2 AAGAGG 8

RESULT 30
US-08-859-954-406
; Sequence 406, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 406:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
;
US-08-859-954-406

Query Match          35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 57;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1022 TGCCCA 1028
DB      2 TGCCCA 8

```

```
RESULT 31
US-08-859-954-540
; Sequence 540, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramon
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 540:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
; US-08-859-954-540

Query Match          35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 57;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1030 AAGGTGG 1036
Db      1 AAGGTGG 7

RESULT 32
US-08-855-372B-6
; Sequence 6, Application US/08855372B
; Patent No. 6090549
; GENERAL INFORMATION:
; APPLICANT: Mirzabekov, Andrei D
; APPLICANT: Parinov, Sergei V
; APPLICANT: Barsky, Victor E
; APPLICANT: Kirillov, Eugene V
; APPLICANT: Dubiley, Svetlana A
; TITLE OF INVENTION: Use of Continuous/Contiguous Stacking Hybridization as a Diagnost
; NUMBER OF SEQUENCES: 88
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CHERSKOV & FLAVNIK
```

```
STREET: 20 N. Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States
ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.50 inch, 1.4 MB storage
; COMPUTER: PC
; OPERATING SYSTEM: Microsoft Windows 98
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/855,372B
; FILING DATE: 13-MAY-97
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. 08/587,332
; FILING DATE: 16-JAN-96
; ATTORNEY/AGENT INFORMATION:
; NAME: Cherskov, Michael J.
; REGISTRATION NUMBER: 33,664
; REFERENCE/DOCKET NUMBER: ANL-IN-95-027
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 621-1330
; TELEFAX: (312) 621-0088
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 bases
; TYPE: nucleic acid
; STRANDEDNESS: No. 6090549 Applicable
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; HYPOTHETICAL: Yes
; US-08-855-372B-6

Query Match          35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 57;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1021 CTGCCCA 1027
Db      1 CTGCCCA 7

RESULT 33
US-09-498-851-6
; Sequence 6, Application US/09498851
; Patent No. 6440671
; GENERAL INFORMATION:
; APPLICANT: Mirzabekov, Andrei D
; APPLICANT: Parinov, Sergei V
; APPLICANT: Barsky, Victor E
; APPLICANT: Kirillov, Eugene V
; APPLICANT: Dubiley, Svetlana A
; TITLE OF INVENTION: Use of Continuous/Contiguous
; NUMBER OF SEQUENCES: 88
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CHERSKOV & FLAVNIK
; STREET: 20 N. Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.50 inch, 1.4 MB storage
; COMPUTER: PC
; OPERATING SYSTEM: Microsoft Windows 98
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/498,851
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/855,372
; FILING DATE: 13-MAY-97
```

APPLICATION NUMBER: U.S. 08/587,332
FILING DATE: 16-JAN-96
ATTORNEY/AGENT INFORMATION:
NAME: Cherskov, Michael J.
REGISTRATION NUMBER: 33,664
REFERENCE/DOCKET NUMBER: ANL-IN-95-027
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 621-1330
TELEFAX: (312) 621-0088
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 bases
TYPE: nucleic acid
STRANDEDNESS: No. 6440671 Applicable
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
HYPOTHETICAL: yes
US-09-498-851-6

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 57;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1021 CTGCCCA 1027
Db 1 CTGCCCA 7

RESULT 34
US-08-068-945A-36/c
Sequence 36, Application US/08068945A
Patent No. 5616483
GENERAL INFORMATION:
APPLICANT: Bjursell, Gunnar
APPLICANT: Carlsson, Peter
APPLICANT: Enerback, Sven
APPLICANT: Hansson, Lennart
APPLICANT: Lidberg, Ulf
APPLICANT: Nilsson, Jeanette
APPLICANT: Tornell, Jan
TITLE OF INVENTION: New DNA Sequences
NUMBER OF SEQUENCES: 58
CORRESPONDENCE ADDRESS:
ADDRESSEE: White & Case
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: United States
ZIP: 10036-2787
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/068,945A
FILING DATE: 27-MAY-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9201809-2
FILING DATE: 11-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9201826-6
FILING DATE: 12-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9202088-2
FILING DATE: 03-JUL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9300902-5
FILING DATE: 19-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Sterner, Richard J.
REGISTRATION NUMBER: 35,372

REFERENCE/DOCKET NUMBER: 1103326-052
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)819-8783
TELEFAX: (212)354-8113
INFORMATION FOR SEQ ID NO: 36:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-068-945A-36

Query Match 35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 50;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1025 CCAAGAA 1031
Db 8 CCAAGAA 2

RESULT 35
US-08-442-806-36/c
Sequence 36, Application US/08442806
Patent No. 5716817
GENERAL INFORMATION:
APPLICANT: Bjursell, Gunnar
APPLICANT: Carlsson, Peter
APPLICANT: Enerback, Sven
APPLICANT: Hansson, Lennart
APPLICANT: Lidberg, Ulf
APPLICANT: Nilsson, Jeanette
APPLICANT: Tornell, Jan
TITLE OF INVENTION: Genomic DNA Sequences
TITLE OF INVENTION: Encoding Human BSSL/CEL
NUMBER OF SEQUENCES: 58
CORRESPONDENCE ADDRESS:
ADDRESSEE: White & Case
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: United States
ZIP: 10036-2787
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,806
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9201809-2
FILING DATE: 11-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9201826-6
FILING DATE: 12-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9202088-2
FILING DATE: 03-JUL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9300902-5
FILING DATE: 19-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Sterner, Richard J.
REGISTRATION NUMBER: 35,372
REFERENCE/DOCKET NUMBER: 1103326-052

```

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 819-8783
; TELEFAX: (212) 354-8113
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 9 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-442-806-36

```

```

Query Match          35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 50;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1025 CCAAGAA 1031
      |||||
Db       8 CCAAGAA 2

```

```

RESULT 36
US-09-063-450-10
; Sequence 10, Application US/09063450
; Patent No. 6109776
; GENERAL INFORMATION:
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Method and System for Computationally Identifying
; FILE REFERENCE: 77001.002
; CURRENT APPLICATION NUMBER: US/09/063,450
; CURRENT FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 10
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:example
; OTHER INFORMATION: sequence illustrating a computational methodology
US-09-063-450-10

```

```

Query Match          35.0%; Score 7; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 50;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1029 GAAGGTG 1035
      |||||
Db       3 GAAGGTG 9

```

```

Search completed: December 3, 2004, 11:41:57
Job time : 1 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 3, 2004, 11:43:49 ; Search time 0.001 Seconds
(without alignments)
21.120 Million cell updates/sec

Title: us-10-024-369-3
Perfect score: 20
Sequence: 1 cttctgcccaagaagtgagg 20

Scoring table: IDENTITY NUC
Gap 10.0, Gapext 0.5

Searched: 50 seqs, 528 residues

Total number of hits satisfying chosen parameters: 100

Minimum DB seq length: 8
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 50 summaries

Database: rnpbdb.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed.
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	US-10-024-369-47	Sequence 47, Appl
2	12.8	64.0	17	US-09-930-423-674	Sequence 674, App
3	12.8	64.0	17	US-09-745-237A-674	Sequence 674, App
4	12	60.0	15	US-09-775-818-2	Sequence 2, Appli
5	12	60.0	15	US-10-663-999-2	Sequence 2, Appli
6	9.4	47.0	12	US-10-661-165-445	Sequence 445, App
7	9	45.0	10	US-10-033-145-410	Sequence 410, App
8	9	45.0	10	US-10-033-145-530	Sequence 930, App
9	9	45.0	10	US-10-033-145-1231	Sequence 1231, Ap
10	9	45.0	11	US-09-862-847-15	Sequence 15, Appl
11	8.4	42.0	10	US-10-033-145-262	Sequence 262, App
12	8.4	42.0	10	US-10-033-145-437	Sequence 437, App
13	8.4	42.0	10	US-10-033-145-437	Sequence 2081, Ap
14	8.4	42.0	10	US-10-057-726-3	Sequence 3, Appli
15	8.4	42.0	10	US-10-330-627-713	Sequence 713, App
16	8.4	42.0	10	US-10-293-222-330	Sequence 330, App
17	8.4	42.0	10	US-10-660-253-84	Sequence 84, Appl
18	8.4	42.0	10	US-10-670-011-398	Sequence 398, App
19	8.4	42.0	11	US-09-772-719-73	Sequence 73, Appl
20	8.4	42.0	11	US-09-967-237-70	Sequence 73, Appl
21	8.4	42.0	11	US-10-450-797-170	Sequence 170, App
22	8.4	42.0	11	US-10-450-797-1255	Sequence 1255, Ap
23	8.4	42.0	11	US-10-450-797-1255	Sequence 1259, Ap
24	8	40.0	9	US-09-989-789-2078	Sequence 2078, Ap
25	8	40.0	9	US-09-989-789-2078	Sequence 2079, Ap
26	8	40.0	9	US-09-989-789-2078	Sequence 2079, Ap
27	8	40.0	9	US-09-989-789-2263	Sequence 2263, Ap
28	8	40.0	9	US-09-989-789-2263	Sequence 2263, Ap
29	8	40.0	9	US-09-989-789-2263	Sequence 2263, Ap
30	8	40.0	9	US-09-990-186-2078	Sequence 2078, Ap
31	8	40.0	9	US-09-990-186-2079	Sequence 2079, Ap
32	8	40.0	9	US-09-990-186-2262	Sequence 2262, Ap
33	8	40.0	9	US-09-990-186-2263	Sequence 2263, Ap

34	8	40.0	9	US-09-989-994-2079	Sequence 2079, Ap
35	8	40.0	9	US-09-989-994-2262	Sequence 2262, Ap
36	8	40.0	9	US-09-989-994-2263	Sequence 2263, Ap
37	8	40.0	9	US-10-006-069A-7	Sequence 7, Appli
38	8	40.0	10	US-10-033-145-198	Sequence 198, App
39	8	40.0	10	US-10-033-145-198	Sequence 296, App
40	8	40.0	10	US-10-033-145-296	Sequence 298, App
41	8	40.0	10	US-10-033-145-298	Sequence 701, App
42	8	40.0	10	US-10-033-145-701	Sequence 1370, Ap
43	8	40.0	10	US-10-033-145-1792	Sequence 1792, Ap
44	8	40.0	10	US-10-033-145-1806	Sequence 1806, Ap
45	8	40.0	10	US-10-033-145-1979	Sequence 1979, Ap
46	8	40.0	10	US-10-010-802-281	Sequence 281, App
47	8	40.0	10	US-10-330-627-132	Sequence 132, App
48	8	40.0	10	US-10-330-627-1157	Sequence 1157, Ap
49	8	40.0	10	US-10-293-222-324	Sequence 324, App
50	8	40.0	10	US-10-215-982-360	Sequence 360, App

ALIGNMENTS

```
RESULT 1
US-10-024-369-47/c
; Sequence 47, Application US/10024369
; Publication No. US20030134809A1
; GENERAL INFORMATION:
; APPLICANT: Alexander H. Borchers
; APPLICANT: Donna T. Ward
; APPLICANT: Susan M. Freiler
; TITLE OF INVENTION: ANTISENSE MODULATION OF ABC TRANSPORTER MHC 1 EXPRESSION
; FILE REFERENCE: RTS-0353
; CURRENT APPLICATION NUMBER: US/10/024,369
; CURRENT FILING DATE: 2001-12-17
; NUMBER OF SEQ ID NOS: 91
; SEQ ID NO 47
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-10-024-369-47

Query Match      100.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.097;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      1018 CTTCTGCCCAAGAAGTGGG 1037
Db       20 CTTCTGCCCAAGAAGTGGG 1

RESULT 2
US-09-930-423-674
; Sequence 674, Application US/09930423
; Publication No. US20030092003A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyne Pharmaceuticals, Inc.
; APPLICANT: Biotechnology, Larry
; APPLICANT: MGSwagger, Jim
; TITLE OF INVENTION: Method and Reagent for the Treatment of Alzheimer's Disease
; FILE REFERENCE: MBH90.918-A.400/027
; CURRENT APPLICATION NUMBER: US/09/930,423
; CURRENT FILING DATE: 2001-08-15
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 674
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo Sapiens
; US-09-930-423-674

Query Match      64.0%; Score 12.8; DB 1; Length 17;
```

Best Local Similarity 68.8%; Pred. No. 2.9;
Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

```
Qy      1020 TCTGCCAAGAAGTG 1035
          : : ||||| ||| : : |
Db      2   UUGCCCAAGAAAGUG 17
```

RESULT 3

```

: Sequence 674, Application US/09745237A
: Publication No. US20030143708A1
:
: GENERAL INFORMATION:
:
: APPLICANT: Ribozyme Pharmaceuticals, Inc.
: APPLICANT: Blatt, Larry
: APPLICANT: McSwiggen, Jim
: TITLE OF INVENTION: Method and Reagent for the Treatment of Alzheimer's Disease
: FILE REFERENCE: 400/007 (MBH00-918-A)
: CURRENT APPLICATION NUMBER: US/09745,237A
: CURRENT FILING DATE: 2002-04-15
: NUMBER OF SEQ ID NOS: 4550
: SOFTWARE: PatentIn version 3.0
:
: SEQ ID NO 674
:
: LENGTH: 17
:
: TYPE: RNA
:
: ORGANISM: Homo sapiens
:
: OS-09-745-237A-674

```

Query Match	64.0%	Score 12.8;	DB 1;	Length 17;
Best Local Similarity	68.8%	Pred. No. 2.9;		
Matches 11; Conservative	3;	Mismatches 2;	Indels 0;	Gaps 0;

```
QY      1020 TCTGCCCAAGAGGTG 1035
          : : ||||| ||| | : |
Db      2    UUTUGCCCAAGAAAGUG 17
```

RESULT 4

```

US-09-775-818-2/c
Sequence 2, Application US/09775818
Patent No. US20010044100A1
GENERAL INFORMATION:
APPLICANT: Laboratory of Molecular Biophotonics
TITLE OF INVENTION: Method for selectively separating live cells expressing
TITLE OF INVENTION: a specific gene
FILE REFERENCE: FP00-0043-00
CURRENT APPLICATION NUMBER: US/09/775,818
CURRENT FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: JP 2000/028117
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: JP 2000/130793
PRIOR FILING DATE: 2000-04-28
NUMBER OF SEQ ID NOS: 20
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 15
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Probe
US-09-775-818-2

```

Query Match	60.0%;	Score 12;	DB 1;	Length 15;
Best Local Similarity	100.0%;	Pred. No. 3.7;		
Matches	12;	Conservative	0;	Mismatches 0;
				Indels 0;
				Gaps 0;

Qy	1022	TGCCCAAGAGG	1033
Db	14	TGCCCAAGAGG	3

RESULT 5
US-10-663-999-2/c

; Sequence 2, Application US/10663999
; Publication No. US20040161771A1

```

; TITLE: Laboratory of Molecular Biophotonics
; TITLE OF INVENTION: Method for selectively separating live cells expressing
; TITLE OF INVENTION: a specific gene
; FILE REFERENCE: FP00-0043-00
; CURRENT FILING DATE: US/10/663,999
; PRIOR APPLICATION NUMBER: 2003-09-16
; PRIOR APPLICATION NUMBER: US/09/775,818
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: JP 2000/028117
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: JP 2000/130793
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Probe
; US-10-663-999-2

```

Query Match	60.0%	Score 12;	DB 1;	Length 15;
Best Local Similarity	100.0%	Pred. No. 3.7;		
Matches 12; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;

QY	1022	TGCCCAAGAAGG	1033
Db	14	TGCCCAAGAAGC	3

RESULT 6
US-10-661-165-445

```

/ Sequence 445, Application US/10661165
/ Publication No. US20040137470A1
/
/ GENERAL INFORMATION:
/ APPLICANT: Dhallan, Ravinder S.
/ TITLE OF INVENTION: METHODS FOR DETECTION OF GENETIC
/ TITLE OF INVENTION: DISORDERS
/ FILE REFERENCE: 543312000420
/
/ CURRENT APPLICATION NUMBER: US/10/661,165
/ CURRENT FILING DATE: 2003-09-11
/ PRIOR APPLICATION NUMBER: PCT/US03/06198
/ PRIOR FILING DATE: 2003-02-28
/ PRIOR APPLICATION NUMBER: US 60/378,354
/ PRIOR FILING DATE: 2002-05-08
/ PRIOR APPLICATION NUMBER: US 10/093,618
/ PRIOR FILING DATE: 2002-03-11
/ PRIOR APPLICATION NUMBER: US 60/360,232
/ PRIOR FILING DATE: 2002-03-01
/ PRIOR APPLICATION NUMBER: PCT/US03/27308
/ PRIOR FILING DATE: 2003-08-29
/ PRIOR APPLICATION NUMBER: US 10/376,770
/ PRIOR FILING DATE: 2003-02-28
/ NUMBER OF SEQ ID NOS: 628
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 445
/
/ LENGTH: 12
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Primer
/
/ US-10-661-165-445

```

Query Match	47.0%	Score 9.4;	DB 1;	Length 12;
Best Local Similarity	90.9%;	Pred. No. 10;		
Matches 10;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0;

QY 1018 CTTCGCCCAA 1028
|| || || || || || || ||

```
Db          2  CTACTGCCCA 12

RESULT 7
US-10-033-145-410
; Sequence 410, Application US/10033145
; Publication No. US20020151515A1
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; PRIOR FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 410
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-410

Query Match          45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY          1029 GAAGGTGG 1037
Db          1  GAAGGTGG 9

RESULT 8
US-10-033-145-930
; Sequence 930, Application US/10033145
; Publication No. US20020151515A1
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; PRIOR FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 930
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-930

Query Match          45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY          1019 TTCTGCCCA 1027
Db          2  TTCTGCCCA 10

RESULT 9
US-10-033-145-1231
; Sequence 1231, Application US/10033145
; Publication No. US20020151515A1
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS

; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; PRIOR FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1231
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-1231

Query Match          45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY          1028 AGAAGTGG 1036
Db          2  AGAAGTGG 10

RESULT 10
US-09-862-847-15/c
; Sequence 15, Application US/09862847
; Patent No. US2002017230A1
; GENERAL INFORMATION:
; APPLICANT: Batic, Ralph S.
; APPLICANT: Boyd, Yount
; TITLE OF INVENTION: DIRECTION ASSEMBLY OF LARGE VIRAL GENOMES AND CHROMOSOMES
; FILE REFERENCE: 5470.270
; CURRENT APPLICATION NUMBER: US/09/862,847
; CURRENT FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: US 60/206,537
; PRIOR FILING DATE: 2000-05-21
; PRIOR APPLICATION NUMBER: US 60/285,320
; PRIOR FILING DATE: 2001-04-20
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide primer.
US-09-862-847-15

Query Match          45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY          1025 CCAAGGAGG 1033
Db          10  CCAAGGAGG 2

RESULT 11
US-10-033-145-262/c
; Sequence 262, Application US/10033145
; Publication No. US20020151515A1
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; PRIOR FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
```

SEQ ID NO 262
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-033-145-262

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1022 TGCCCAAGAA 1031
DB 10 TGCCCAAGCA 1

RESULT 12
US-10-033-145-437/c
Sequence 437, Application US/10033145
Publication No. US20020151515A1
GENERAL INFORMATION:
APPLICANT: GENZYME CORPORATION
APPLICANT: ROBERTS, BRUCE
APPLICANT: SHANKARA, SRINIVAS
TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
FILE REFERENCE: GA0201C
CURRENT APPLICATION NUMBER: US/10/033.145
CURRENT FILING DATE: 2001-11-05
PRIOR APPLICATION NUMBER: PCT/US99/13800
PRIOR FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 2137
SOFTWARE: PatentIn version 3.0
SEQ ID NO 437
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-033-145-437

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1027 AAGAGGTGG 1036
DB 10 AAGCAGGTGG 1

RESULT 13
US-10-033-145-2081
Sequence 2081, Application US/10033145
Publication No. US20020151515A1
GENERAL INFORMATION:
APPLICANT: GENZYME CORPORATION
APPLICANT: ROBERTS, BRUCE
APPLICANT: SHANKARA, SRINIVAS
TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
FILE REFERENCE: GA0201C
CURRENT APPLICATION NUMBER: US/10/033.145
CURRENT FILING DATE: 2001-11-05
PRIOR APPLICATION NUMBER: PCT/US99/13800
PRIOR FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 2137
SOFTWARE: PatentIn version 3.0
SEQ ID NO 2081
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-033-145-2081

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1028 AAGAGGTGG 1037

DB 1 AGAGGTGG 10

RESULT 14
US-10-057-726-3/c
Sequence 3, Application US/10057726
Publication No. US20030017549A1
GENERAL INFORMATION:
APPLICANT: Owens, Gary K.
APPLICANT: Manabe, Ichiro
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR EXPRESSING POLYNUCLEOTIDES SPECIFICALLY IN SMOOTH MUSCLE CELLS IN VIVO
FILE REFERENCE: 021258-00020US
CURRENT APPLICATION NUMBER: US/10/057.726
CURRENT FILING DATE: 2002-06-24
PRIOR APPLICATION NUMBER: US 60/263,811
PRIOR FILING DATE: 2001-01-24
PRIOR APPLICATION NUMBER: US 09/600,319
PRIOR FILING DATE: 2000-07-13
PRIOR APPLICATION NUMBER: WO PCT/US99/01038
PRIOR FILING DATE: 1999-01-15
PRIOR APPLICATION NUMBER: US 60/071,300
PRIOR FILING DATE: 1998-01-16
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 10
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Carg2 sequence
US-10-057-726-3

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1024 CCCAAGAGG 1033
DB 10 CCCAAGAGG 1

RESULT 15
US-10-330-627-713
Sequence 713, Application US/10330627
Publication No. US20030175771A1
GENERAL INFORMATION:
APPLICANT: Velulescu, Victor E.
APPLICANT: Kinzler, Kenneth W.
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330.627
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 713
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-330-627-713

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1023 GCCCAAGAG 1032
DB 1 GCACAAAGAG 10

RESULT 16
US-10-293-222-330
; Sequence 330, Application US/10293222
; Publication No. US2004003932A1
; GENERAL INFORMATION:
; APPLICANT: Versteeg, Rogier
; APPLICANT: Caron, Hubertus N.
; TITLE OF INVENTION: MYC targets
; FILE REFERENCE: 2183-5580US
; CURRENT FILING DATE: 2002-11-12
; PRIOR APPLICATION NUMBER: PCT/NL01/00361
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: EP 00201698.8
; PRIOR FILING DATE: 2000-05-11
; PRIOR APPLICATION NUMBER: EP 00202284.6
; PRIOR FILING DATE: 2000-06-29
; NUMBER OF SEQ ID NOS: 455
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 330
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-293-222-330

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1023 GCCCAGAG 1032
Db 1 GCACAGAG 10

RESULT 17
US-10-660-253-84/c
; Sequence 84, Application US/10660253
; Publication No. US2004011505A1
; GENERAL INFORMATION:
; APPLICANT: Behlke, Mark A.
; APPLICANT: Linsyan, Huang
; APPLICANT: Owcza, Richard
; APPLICANT: Walder, Joseph A.
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR ESTIMATING THE MELTING TEMPERATURE (Tm) F
; FILE REFERENCE: 03988/100K297-US1
; CURRENT APPLICATION NUMBER: US/10/660,253
; CURRENT FILING DATE: 2003-09-11
; PRIOR APPLICATION NUMBER: US 60/410,663
; PRIOR FILING DATE: 2002-09-12
; NUMBER OF SEQ ID NOS: 92
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 84
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: oligonucleotide
US-10-660-253-84

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1027 AAGAAGTGG 1036
Db 10 AAGAAGTGG 1

RESULT 18
US-10-670-011-398/c

; Sequence 398, Application US/10670011
; Publication No. US20040209832A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwigen, James
; APPLICANT: Beigelman, Leonid
; APPLICANT: Pavco, Pamela
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Vascular Endothelial
; TITLE OF INVENTION: Growth Factor and Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: 400/132 (MEH02-742-G)
; CURRENT FILING DATE: 2003-09-23
; PRIOR APPLICATION NUMBER: PCT/US03/05022
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US60/358,580
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US60/363,124
; PRIOR FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: US60/386,782
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US60/393,796
; PRIOR FILING DATE: 2002-07-03
; PRIOR APPLICATION NUMBER: US60/399,348
; PRIOR FILING DATE: 2002-07-29
; PRIOR APPLICATION NUMBER: US60/406,784
; PRIOR FILING DATE: 2002-08-29
; PRIOR APPLICATION NUMBER: US60/408,378
; PRIOR FILING DATE: 2002-09-05
; PRIOR APPLICATION NUMBER: US60/409,293
; PRIOR FILING DATE: 2002-09-09
; PRIOR APPLICATION NUMBER: US60/440,129
; PRIOR FILING DATE: 2003-01-15
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 427
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 398
; LENGTH: 10
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense seq
US-10-670-011-398

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1020 TCTGCCAG 1029
Db 10 TCTGCCAG 1

RESULT 19
US-09-772-719-73
; Sequence 73, Application US/09772719
; Patent No. US20020137910A1
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: MY Gene and Protein
; NUMBER OF SEQUENCES: 86
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Leona L. Lauder
; STREET: 369 Pine Street
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/772,719
FILING DATE: 30-JAN-2001
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,049
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3E
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-981-2034
TELEFAX: 415-981-0332
INFORMATION FOR SEQ ID NO: 73:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
DESCRIPTION: 5' donor consensus splice sequence
US-09-772-719-73

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 15;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1028 AGAGGTGGG 1037
|||
Db 1 AGCAGGTGGG 10

RESULT 20
US-09-967-237-73
Sequence 73, Application US/09967237
Publication No. US20030049828A1
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: NM Gene and Protein
FILE REFERENCE: D-0021-SB-2
CURRENT APPLICATION NUMBER: US/09/967,237
CURRENT FILING DATE: 2001-09-27
PRIOR APPLICATION NUMBER: 09/178,115
PRIOR FILING DATE: 1998-10-23
NUMBER OF SEQ ID NOS: 116
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 73
LENGTH: 11
TYPE: DNA
ORGANISM: HUMAN
US-09-967-237-73

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 15;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1028 AGAGGTGGG 1037
|||
Db 1 AGCAGGTGGG 10

RESULT 21
US-10-450-797-170
Sequence 170, Application US/10450797
Publication No. US20040142335A1
GENERAL INFORMATION:

APPLICANT: Petersohn, Dirk
APPLICANT: Conradt, Marcus
APPLICANT: Hofmann, Kay
TITLE OF INVENTION: METHOD FOR DETERMINING SKIN STRESS OR SKIN AGEING IN VITRO
FILE REFERENCE: HENK-0041
CURRENT APPLICATION NUMBER: US/10/450,797
CURRENT FILING DATE: 2003-12-04
PRIOR APPLICATION NUMBER: PCT/EP01/15178
PRIOR FILING DATE: 2001-12-20
PRIOR APPLICATION NUMBER: DE 101 00 121.5
PRIOR FILING DATE: 2001-01-03
NUMBER OF SEQ ID NOS: 1435
SOFTWARE: PatentIn version 3.2
SEQ ID NO 170
LENGTH: 11
TYPE: DNA
ORGANISM: Homo sapiens
US-10-450-797-170

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 15;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1027 AAGAGGTGG 1036
|||
Db 2 AAGAAAGTGG 11

RESULT 22
US-10-450-797-1255/C
Sequence 1255, Application US/10450797
Publication No. US20040142335A1
GENERAL INFORMATION:
APPLICANT: Petersohn, Dirk
APPLICANT: Conradt, Marcus
APPLICANT: Hofmann, Kay
TITLE OF INVENTION: METHOD FOR DETERMINING SKIN STRESS OR SKIN AGEING IN VITRO
FILE REFERENCE: HENK-0041
CURRENT APPLICATION NUMBER: US/10/450,797
CURRENT FILING DATE: 2003-12-04
PRIOR APPLICATION NUMBER: PCT/EP01/15178
PRIOR FILING DATE: 2001-12-20
PRIOR APPLICATION NUMBER: DE 101 00 121.5
PRIOR FILING DATE: 2001-01-03
NUMBER OF SEQ ID NOS: 1435
SOFTWARE: PatentIn version 3.2
SEQ ID NO 1255
LENGTH: 11
TYPE: DNA
ORGANISM: Homo sapiens
US-10-450-797-1255

Query Match 42.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 15;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1026 CAAGAAGTGG 1035
|||
Db 11 CCAGAAGTGG 2

RESULT 23
US-10-450-797-1259/C
Sequence 1259, Application US/10450797
Publication No. US20040142335A1
GENERAL INFORMATION:
APPLICANT: Petersohn, Dirk
APPLICANT: Conradt, Marcus
APPLICANT: Hofmann, Kay
TITLE OF INVENTION: METHOD FOR DETERMINING SKIN STRESS OR SKIN AGEING IN VITRO
FILE REFERENCE: HENK-0041
CURRENT APPLICATION NUMBER: US/10/450,797
CURRENT FILING DATE: 2003-12-04

```

; PRIOR APPLICATION NUMBER: PCT/EP01/15178
; PRIOR FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: DE 101 00 121.5
; PRIOR FILING DATE: 2001-01-03
; NUMBER OF SEQ ID NOS: 1435
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1259
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-450-797-1259

Query Match      42.0%; Score 8; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 15;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1026 CAGAGAGGTG 1035
Db      11 CAATAGAGTG 2

RESULT 24
US-09-989-789-2078
; Sequence 2078, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2078
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-789-2078

Query Match      40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1030 AAGGTGGG 1037
Db      1 AAGGTGGG 8

RESULT 25
US-09-989-789-2079
; Sequence 2079, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2079
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-789-2079
```

```

Query Match      40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1030 AAGGTGGG 1037
Db      1 AAGGTGGG 8

RESULT 26
US-09-989-789-2262
; Sequence 2262, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2262
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-789-2262

Query Match      40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1028 AGAAGGTG 1035
Db      2 AGAAGGTG 9
```

```

RESULT 27
US-09-989-789-2263
; Sequence 2263, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2263
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-789-2263

Query Match      40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1028 AGAAGGTG 1035
Db      2 AGAAGGTG 9

RESULT 28
```

US-09-846-033B-7/c
; Sequence 7, Application US/09846033B
; Publication No. US2003004404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamleson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis with Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: target
US-09-846-033B-7

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1020 TCTGCCCA 1027
|||
Db 8 TCTGCCCA 1

RESULT 29
US-09-990-186-2078
; Sequence 2078, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2078
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-990-186-2078

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1030 AAGGTGGG 1037
|||
Db 1 AAGGTGGG 8

RESULT 30
US-09-990-186-2079

; Sequence 2079, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2079
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-990-186-2079

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1030 AAGGTGGG 1037
|||
Db 1 AAGGTGGG 8

RESULT 31
US-09-990-186-2262
; Sequence 2262, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2262
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-990-186-2262

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1028 AGAAGGTG 1035
|||
Db 2 AGAAGGTG 9

RESULT 32
US-09-990-186-2263
; Sequence 2263, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 2263
LENGTH: 9
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-990-186-2263

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1028 AGAAGTG 1035
DB 2 AGAAGTG 9

RESULT 33
US-09-989-994-2078
Sequence 2078, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2078
LENGTH: 9
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-994-2078

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1030 AAGGTGG 1037
DB 1 AAGGTGG 8

RESULT 34
US-09-989-994-2079
Sequence 2079, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2079
LENGTH: 9
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-994-2079

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1030 AAGGTGG 1037
DB 1 AAGGTGG 8

RESULT 35
US-09-989-994-2262
Sequence 2262, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2262
LENGTH: 9
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-994-2262

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1028 AGAAGTG 1035
DB 2 AGAAGTG 9

RESULT 36
US-09-989-994-2263
Sequence 2263, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2263
LENGTH: 9
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-994-2263

Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1028 AGAAGTG 1035
DB 2 AGAAGTG 9

RESULT 37
US-10-006-069A-7/c
Sequence 7, Application US/10006069A
Publication No. US20030021776A1

```
/ GENERAL INFORMATION:
/ APPLICANT: Rebar, Edward
/ APPLICANT: Jamieson, Andrew
/ APPLICANT: Liu, Qiang
/ APPLICANT: Liu, Pei-Qi
/ APPLICANT: Wolfe, Alan
/ APPLICANT: Eisenberg, Stephen P.
/ APPLICANT: Sangamo Biosciences, Inc.
/ TITLE OF INVENTION: Regulation of Angiogenesis with Zinc
/ TITLE OF INVENTION: Finger Proteins
/ FILE REFERENCE: 019496-005830US
/ CURRENT APPLICATION NUMBER: US/10/006,069A
/ PRIOR FILING DATE: 2001-12-17
/ PRIOR APPLICATION NUMBER: US 09/733,604
/ PRIOR FILING DATE: 2000-12-07
/ PRIOR APPLICATION NUMBER: US 09/736,083
/ PRIOR FILING DATE: 2000-12-12
/ PRIOR APPLICATION NUMBER: US 09/846,033
/ PRIOR FILING DATE: 2001-04-30
/ NUMBER OF SEQ ID NOS: 252
/ SOFTWARE: PastSeq for Windows Version 3.0
/ SEQ ID NO 7
/ LENGTH: 9
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: target
US-10-006-069A-7
```

```
Query Match 40.0%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1020 TCTGCCCA 1027
Db 8 TCTGCCCA 1
```

```
RESULT 38
US-10-033-145-198/c
/ Sequence 198, Application US/10033145
/ Publication No. US2002015151A1
/ GENERAL INFORMATION:
/ APPLICANT: GENZYME CORPORATION
/ APPLICANT: ROBERTS, BRUCE
/ APPLICANT: SHANKARA, SRINIVAS
/ TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
/ FILE REFERENCE: GA0201C
/ CURRENT APPLICATION NUMBER: US/10/033,145
/ CURRENT FILING DATE: 2001-11-05
/ PRIOR APPLICATION NUMBER: PCT/US99/13800
/ PRIOR FILING DATE: 1999-06-18
/ NUMBER OF SEQ ID NOS: 2137
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 198
/ LENGTH: 10
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-033-145-198
```

```
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1019 TTCTGCC 1026
Db 8 TTCTGCC 1
```

```
RESULT 39
US-10-033-145-296/c
/ Sequence 296, Application US/10033145
```

```
/ Publication No. US2002015151A1
/ GENERAL INFORMATION:
/ APPLICANT: GENZYME CORPORATION
/ APPLICANT: ROBERTS, BRUCE
/ APPLICANT: SHANKARA, SRINIVAS
/ TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
/ FILE REFERENCE: GA0201C
/ CURRENT APPLICATION NUMBER: US/10/033,145
/ CURRENT FILING DATE: 2001-11-05
/ PRIOR APPLICATION NUMBER: PCT/US99/13800
/ PRIOR FILING DATE: 1999-06-18
/ NUMBER OF SEQ ID NOS: 2137
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 296
/ LENGTH: 10
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-033-145-296
```

```
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1028 AGAAGGTG 1035
Db 9 AGAAGGTG 2
```

```
RESULT 40
US-10-033-145-298/c
/ Sequence 298, Application US/10033145
/ Publication No. US2002015151A1
/ GENERAL INFORMATION:
/ APPLICANT: GENZYME CORPORATION
/ APPLICANT: ROBERTS, BRUCE
/ APPLICANT: SHANKARA, SRINIVAS
/ TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
/ FILE REFERENCE: GA0201C
/ CURRENT APPLICATION NUMBER: US/10/033,145
/ CURRENT FILING DATE: 2001-11-05
/ PRIOR APPLICATION NUMBER: PCT/US99/13800
/ PRIOR FILING DATE: 1999-06-18
/ NUMBER OF SEQ ID NOS: 2137
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 298
/ LENGTH: 10
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-033-145-298
```

```
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1030 AAGGTGG 1037
Db 10 AAGGTGG 3
```

```
RESULT 41
US-10-033-145-701
/ Sequence 701, Application US/10033145
/ Publication No. US2002015151A1
/ GENERAL INFORMATION:
/ APPLICANT: GENZYME CORPORATION
/ APPLICANT: ROBERTS, BRUCE
/ APPLICANT: SHANKARA, SRINIVAS
/ TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
/ FILE REFERENCE: GA0201C
/ CURRENT APPLICATION NUMBER: US/10/033,145
/ CURRENT FILING DATE: 2001-11-05
/ PRIOR APPLICATION NUMBER: PCT/US99/13800
/ PRIOR FILING DATE: 1999-06-18
```

NUMBER OF SEQ ID NOS: 2137
SOFTWARE: PatentIn version 3.0
SEQ ID NO 701
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-033-145-701

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1018 CTTCTGCC 1025
Db 2 CTTCTGCC 9

RESULT 42
US-10-033-145-1370/c
Sequence 1370, Application US/10033145
Publication No. US2002015151A1
GENERAL INFORMATION:
APPLICANT: GENZYME CORPORATION
APPLICANT: ROBERTS, BRUCE
APPLICANT: SHANKARA, SRINIVAS
TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
FILE REFERENCE: GA0201C
CURRENT APPLICATION NUMBER: US/10/033,145
CURRENT FILING DATE: 2001-11-05
PRIOR APPLICATION NUMBER: PCT/US99/13800
PRIOR FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 2137
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1370
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-033-145-1370

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1018 CTTCTGCC 1025
Db 8 CTTCTGCC 1

RESULT 43
US-10-033-145-1792/c
Sequence 1792, Application US/10033145
Publication No. US2002015151A1
GENERAL INFORMATION:
APPLICANT: GENZYME CORPORATION
APPLICANT: ROBERTS, BRUCE
APPLICANT: SHANKARA, SRINIVAS
TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
FILE REFERENCE: GA0201C
CURRENT APPLICATION NUMBER: US/10/033,145
CURRENT FILING DATE: 2001-11-05
PRIOR APPLICATION NUMBER: PCT/US99/13800
PRIOR FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 2137
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1792
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-033-145-1792

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1026 CAGAAGG 1033
Db 8 CAGAAGG 1

RESULT 44
US-10-033-145-1806
Sequence 1806, Application US/10033145
Publication No. US2002015151A1
GENERAL INFORMATION:
APPLICANT: GENZYME CORPORATION
APPLICANT: ROBERTS, BRUCE
APPLICANT: SHANKARA, SRINIVAS
TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
FILE REFERENCE: GA0201C
CURRENT APPLICATION NUMBER: US/10/033,145
CURRENT FILING DATE: 2001-11-05
PRIOR APPLICATION NUMBER: PCT/US99/13800
PRIOR FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 2137
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1806
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-033-145-1806

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1018 CTTCTGCC 1025
Db 2 CTTCTGCC 9

RESULT 45
US-10-033-145-1979
Sequence 1979, Application US/10033145
Publication No. US2002015151A1
GENERAL INFORMATION:
APPLICANT: GENZYME CORPORATION
APPLICANT: ROBERTS, BRUCE
APPLICANT: SHANKARA, SRINIVAS
TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
FILE REFERENCE: GA0201C
CURRENT APPLICATION NUMBER: US/10/033,145
CURRENT FILING DATE: 2001-11-05
PRIOR APPLICATION NUMBER: PCT/US99/13800
PRIOR FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 2137
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1979
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-033-145-1979

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1029 GAAGGTGG 1036
Db 2 GAAGGTGG 9

RESULT 46
US-10-010-802-281
Sequence 281, Application US/10010802
Publication No. US20030078220A1
GENERAL INFORMATION:

```
; APPLICANT: Genaisance Pharmaceuticals
; APPLICANT: Chew, Anne
; APPLICANT: Denton, R. Rex
; APPLICANT: Duda, Amy
; APPLICANT: Nandabalan, Krishnan
; APPLICANT: Stephens, J. Claiborne
; APPLICANT: Windemuth, Andreas
; TITLE OF INVENTION: Drug Target Isogenes: Polymorphisms in the Interleukin
; FILE REFERENCE: MMH-0002US2.1IAR.alpha
; CURRENT APPLICATION NUMBER: US/10/010,802
; CURRENT FILING DATE: 2001-11-09
; PRIOR APPLICATION NUMBER: PCT/US00/19094
; PRIOR FILING DATE: 2000-07-13
; NUMBER OF SEQ ID NOS: 413
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 281
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-010-802-281
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```
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1029 GAAGGTGG 1036
DB 3 GAAGGTGG 10
```

```
RESULT 47
US-10-330-627-132/c
; Sequence 132, Application US/10330627
; Publication No. US20030175771A1
; GENERAL INFORMATION:
; APPLICANT: Velculescu, Victor E.
; APPLICANT: Kinzler, Kenneth W
; APPLICANT: Vogelstein, Bert
; TITLE OF INVENTION: Human Transcriptomes
; FILE REFERENCE: 001107.00319
; CURRENT APPLICATION NUMBER: US/10/330,627
; CURRENT FILING DATE: 2002-12-30
; PRIOR APPLICATION NUMBER: US 09/448,480
; PRIOR FILING DATE: 1999-11-24
; NUMBER OF SEQ ID NOS: 1564
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 132
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-330-627-132
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```
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1026 CAAGAGG 1033
DB 8 CAAGAGG 1
```

```
RESULT 48
US-10-330-627-1157
; Sequence 1157, Application US/10330627
; Publication No. US20030175771A1
; GENERAL INFORMATION:
; APPLICANT: Velculescu, Victor E.
; APPLICANT: Kinzler, Kenneth W
; APPLICANT: Vogelstein, Bert
; TITLE OF INVENTION: Human Transcriptomes
; FILE REFERENCE: 001107.00319
; CURRENT APPLICATION NUMBER: US/10/330,627
```

```
; CURRENT FILING DATE: 2002-12-30
; PRIOR APPLICATION NUMBER: US 09/448,480
; PRIOR FILING DATE: 1999-11-24
; NUMBER OF SEQ ID NOS: 1564
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1157
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-330-627-1157
```

```
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1028 AGAAGGTG 1035
DB 3 AGAAGGTG 10
```

```
RESULT 49
US-10-293-222-324
; Sequence 324, Application US/10293222
; Publication No. US2004003952A1
; GENERAL INFORMATION:
; APPLICANT: Versteeg, Rogier
; APPLICANT: Caron, Hubertus N.
; TITLE OF INVENTION: MYC targets
; FILE REFERENCE: 2183-5580US
; CURRENT APPLICATION NUMBER: US/10/293,222
; CURRENT FILING DATE: 2002-11-12
; PRIOR APPLICATION NUMBER: PCT/NL01/00361
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: EP 00201698.8
; PRIOR FILING DATE: 2000-05-11
; PRIOR APPLICATION NUMBER: EP 00202284.6
; PRIOR FILING DATE: 2000-06-29
; NUMBER OF SEQ ID NOS: 455
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 324
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-293-222-324
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```
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1018 CTTCTGCC 1025
DB 2 CTTCTGCC 9
```

```
RESULT 50
US-10-215-982-360/c
; Sequence 360, Application US/10215982
; Publication No. US2004021952A1
; GENERAL INFORMATION:
; APPLICANT: Stanton, Martin
; APPLICANT: Epstein, David
; APPLICANT: Hamaguchi, Nobuko
; APPLICANT: Kurz, Markus
; APPLICANT: Keefe, Tony
; APPLICANT: Wilson, Charles
; APPLICANT: Grate, Dilara
; APPLICANT: Marshall, Kristin
; APPLICANT: McCauley, Thomas
; APPLICANT: Kurz, Jeffrey
; TITLE OF INVENTION: NUCLEIC ACID SENSOR MOLECULES AND METHODS OF USING SAME
; FILE REFERENCE: 23239-501 CIP
; CURRENT APPLICATION NUMBER: US/10/215,982
; CURRENT FILING DATE: 2002-08-09
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; PRIOR APPLICATION NUMBER: 60/232,454
; PRIOR FILING DATE: 2000-09-13
; PRIOR APPLICATION NUMBER: 09/952,680
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/311,378
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 60/313,932
; PRIOR FILING DATE: 2001-08-21
; PRIOR APPLICATION NUMBER: 60/338,186
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: 60/349,959
; PRIOR FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: 60/364,486
; PRIOR FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: 60/376,744
; PRIOR FILING DATE: 2002-05-01
; PRIOR APPLICATION NUMBER: 60/367,991
; PRIOR FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER: 60/369,887
; PRIOR FILING DATE: 2002-04-04
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 372
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 360
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Exon 1, the
; OTHER INFORMATION: 5'-exon
US-10-215-982-360

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Query Match      40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      1024 CCCNAGAA 1031
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          9 CCCNAGAA 2

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Search completed: December 3, 2004, 11:43:49
 Job time : 0.001 secs

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OM nucleic - nucleic search, using sw model

Run on: December 3, 2004, 11:48:01 ; Search time 0.001 Seconds
(without alignments)
0.640 Million cell updates/sec

Title: us-10-024-369-3

Sequence: 1 ctctgcacgaagagtg99 20

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 0.5

Searched: 2 seqs, 16 residues

Total number of hits satisfying chosen parameters: 4

Minimum DB seq length: 8
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 2 summaries

Database: rscdb:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	7	35.0	8	1	CL677992
2	6	30.0	8	1	CA851350

ALIGNMENTS

RESULT 1
CL677992/c
LOCUS
DEFINITION
CL677992
PRIO121d.B07_2 - PRIO121d.BR (8) Mixed stage fosmid library of P. pacificus var. California Pristionchus pacificus genomic, genomic survey sequence.
CL677992
CL677992.1 GI:50184054
GSS.
Pristionchus pacificus
Pristionchus pacificus
Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida; Neodiplogasteridae; Pristionchus.
1 (bases 1 to 8)
Strinivasan,V., Otto,G.W., Kahlow,U., Geisler,R. and Sommer,R.J.
Appads: an Acedb database for the nematode satellite organism Pristionchus pacificus
Nucleic Acids Res. 32 (1), D421-D422 (2004)
Contact: Sommer RJ
Evolutionary Biology
Max-Planck-Institute for Developmental Biology
Spemannstr. 37-39, Tuebingen D-72076, Germany
Tel: 00497071601371
Fax: 00497071601498
Email: ralf.sommer@tuebingen.mpg.de
This library was generated at Caltech, Pasadena, USA and end

sequenced at Vancouver, Canada.

Seq primer: T7
Class: fosmid ends

FEATURES

source

Location/Qualifiers

1..8
/organism="Pristionchus pacificus"
/mol_type="genomic DNA"
/strain="California"
/db_xref="taxon:54126"
/clone_11b="Mixed stage fosmid library of P. pacificus var. California"
/note="Vector: pepifos-5 Fosmid vector"

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1029 GAAGTG 1035

Db 7 GAAGTG 1

RESULT 2
CA851350
LOCUS
DEFINITION
D12G08 N20.14.ab1 cDNA Peking library 2, 4 day SCN3 Glycine max
cDNA clone D12G08 5', mRNA sequence.
ACCESSION
CA851350
VERSION
CA851350.1 GI:33388143
KEYWORDS
EST.
SOURCE
Glycine max (soybean)
ORGANISM
Glycine max

REFERENCE
Alkharouf,N.W., Khan,R. and Matthews,B.F.
Analysis of expressed sequence tags from roots of resistant soybean infected by the soybean cyst nematode
Unpublished (2002)
Contact: Alkharouf, N.W.
Soybean Genomics and Improvement Laboratory (SGIL)
US Department of Agriculture (USDA), ARS, PSI
Bldg. 006, Rm 118, 10300 Baltimore Ave., Beltsville, MD 20705-2350,
USA

FEATURES
source
1..8
/organism="Glycine max"
/mol_type="mRNA"
/cultiivar="Peking"
/db_xref="taxon:3847"
/clone="D12G08"
/tissue_type="Roots"
/dev_stage="Seedlings"
/clone_11b="cDNA Peking library 2, 4 day SCN3"
/note="Vector: pBluescript SK-; cDNA clones from mRNA extracted from Peking roots 2 and 4 days post invasion."

Tel: 301 504 5750
Fax: 301 504 5728
Email: alkharouf@ba.ars.usda.gov.
Location/Qualifiers

FEATURES
source

Query Match 30.0%; Score 6; DB 1; Length 8;
Best Local Similarity 85.7%; Pred. No. 0;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1024 CCCAAG 1030

Db 2 CCCAAG 8

Search completed: December 3, 2004, 11:48:01
Job time: 0.001 secs

